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STATE BOARD OF HEALTH

OF

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TUBERCULOSIS.

VOL. II.

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28780

INVESTIGATION OF TUBERCULOSIS.

So long a sufferer from the ravages of consumption has the human race been, that any ray of hope to lighten the gloom of despondency surrounding it has been eagerly welcomed by an expectant world.

As early as 1680, it was held that consumption, or tuberculosis, was not caused by ulceration of the lungs, but by the presence of tubercles, which grew and formed pus in their centers; in the early years of the nineteenth century, also, tuberculosis was recognized as a specific disease, and that tuberculous phthisis was caused by the presence of tubercles. The inoculability of tuberculosis was demonstrated in 1865, by experiments on rabbits, dogs, cats, and guinea-pigs, and the doctrine propounded that it was contracted from the germs of tuberculous matter. But, as ably stated by a recent writer,* "It was vouchsafed to Robert Koch to bring order out of chaos, harmony from confusion, strength out of weakness, hope from despair. Upon the foundations laid by Silvius and Willis, elaborated by Bayle, La nnec, and Villemin, of the existence of tubercle, of its specific character and inoculability, Robert Koch raised the arch, and gave it strength and perpetuity, by keying and crowning the same with his own matchless discovery of the existence and pathogenesis of the tubercle bacillus."

Though hope was not fully realized in Koch's specific, the thinking world was directed into the proper field of research;

* H. R. Hopkins, M. D., Buffalo, N. Y., Transactions of the Medical Society of the State of New York, 1891, p. 60.

the cause of the malady was clearly demonstrated, and, while the work of carnage proceeded, experiment to wrest from science some means of combatting its progress continued.

From the study of specifics for its cure, attention was turned to the means of its propagation, and the demonstration that consumption is a preventable disease inspired afresh the enthusiasm of the sanitarian.

Though entire unanimity as to its non-hereditary character has not yet been attained, there is substantial agreement that the majority of cases are the result of infection, and concerted preventive work on that hypothesis has been entered upon.

While it is conceded that the malady may be contracted by taking into the system its specific germ, in food or drink, yet this is the source that may be the most readily attacked. The inhalation of the dried sputum floating in the air, from consumptives, is, perhaps, not the most prolific source of dissemination, as it is held by some that exposure to the sun's rays destroys its vitality in a few hours. Aerial infection, therefore, will probably prove not to be the most difficult part in the problem of prevention.

The dangerous character of this dried sputum has been shown by injecting it into rabbits and guinea-pigs and their contracting the disease. If guinea-pigs could be infected by inoculating them with this material, why not human beings, by having it introduced into the circulation by means of the respiratory passages.

The discovery that tuberculosis in the bovine and consumption or phthisis in man are kindred affections signalized an important advance, and suggested the inquiry as to the rôle that bovines play in the spread of the disease.

The extent to which milk, as an article of food, is used by all classes, from infants to adults, rendered it certain that, if, as was conceded, the disease was contracted through a specific germ entering the system, and if that germ was contained in the milk supply, there was great danger that the parties consuming this affected milk would take the disease.

Bacteriological examination of specimens determined this point. The germ was found in the milk, and a new and extended propagating center thus revealed.

True, the milk and flesh of the cow, as a source of consumption, had been thought of, believed in and rejected before. It is not to be supposed that with medical minds constantly busy on the study of the etiology of disease, this important pathological factor should have been overlooked.

As early as two centuries ago the theory of the spread of consumption through the flesh of diseased cows was not only propounded, but actually accepted in Europe, and stringent rules for the destruction of all affected bovines enforced. But as theory remained in the realms of speculation, without scientific support, while the slaughter of cattle assumed large proportions and the food supply a corresponding scarceness, a reaction set in. The position was boldly controverted, with a return to former scepticism, and to a more deeply seated belief in the evolution of the disease through heredity alone.

The world has grown wiser. The progress of bacteriology has cleared up many ambiguous points. The germ of tuberculosis has been isolated, detected in milk from tuberculous cows, and the characteristic lesions found on autopsy. There can no longer be a reasonable doubt, that tuberculous cattle are extensively distributed through the dairies of the State, forming centers of infection in their respective herds; that the milk from such cat-

tle is bad, and in many cases contains the germs of the disease, which, though not acting perniciously upon all who partake of it, is still sufficiently dangerous to warrant as earnest precautions and as effective prophylactic measures as in the case of small-pox, typhoid and cholera.

It is to the honor of the State of New York, that she has been the first to place on her statute book a law directing the State Board of Health to enter this new field and organize effective measures against the spread of bovine tuberculosis.

The appropriations made, though incommensurate with the magnitude of the undertaking, have been sufficient to show, to some extent, the vast proportions of this menace to life and health, and the need of adequate resources to intelligently meet and overcome it.

It is the purpose of this chapter to review the work done since the passage of the law (chapter 487 of 1892), till its enforced suspension, by reason of exhausted means, and the creation of a special tuberculosis commission to make a careful study of the subject and report thereon.

The law calls upon the State Board of Health:

1. To ascertain whether or not there exists in the milch cows or other cattle in the State a cause of disease or danger to life.

2. To devise means for averting the same and for preventing all injury from tuberculosis in milch cows.

It further calls upon the State Board to impart to local boards of health such information as may be in its possession, respecting any such disease among cattle, and to offer useful suggestions for the removal of such sources of danger.

The local boards are required to communicate to the State Board such facts in their possession regarding any infectious or contagious disease in milch cows.

Power is given to employ and fix the compensation of medical and veterinary practitioners and other persons as may be necessary, to discharge its duties, and to prescribe rules and regulations for the conduct of the work. Power is also given to call upon sheriffs and deputy sheriffs and officers of the peace in any neighborhood where disease exists among milch cows or other cattle, and to enforce the orders of the State Board. Power is also given to make rules for the destruction of animals affected with tuberculosis or other contagious or infectious disease.

Whenever tuberculosis is found to exist among milch cows or other animals it is the duty of the State Board of Health to take measures to suppress it promptly and to prevent its spreading.

In obedience to the mandate of law the State Board of Health proceeded to organize the tuberculosis branch of its service, and to appoint veterinaries. The following rules, for the guidance of the inspectors, were promulgated:

Rules and Regulations for Inspectors of Cattle Suffering from Tuberculosis or Other Infectious and Contagious Diseases.

The State Board of Health, in pursuance of the powers conferred on it by chapter 487 of the Laws of 1892, hereby makes and publishes the following rules and regulations for the guidance of all inspectors, or other persons, employed by it in the inspection of milch cows and other cattle suffering from tuberculosis or other infectious or contagious diseases:

1. Inspectors or others shall use all reasonable means to discover tuberculosis or other infectious or contagious disease in cattle, and report in writing the result of their inspections not less than once in each month; and as much oftener as may be called for by the president or secretary of the Board.

2. All owners or keepers of cattle, and all persons having charge thereof, shall allow of such inspection and examination as the employes of this Board shall consider necessary, upon said employe presenting his authority to so examine, and all orders made as to destruction, isolation, disinfection, or other care of cattle suffering from infectious or contagious disease, or suspected of so being affected, shall be obeyed by all owners, keepers or other persons having charge of such cattle.

3. Should the inspectors or others employed by the State Board of Health find, upon examination, tuberculosis, or other contagious or infectious disease, existing in cattle examined by them, they are to direct such quarantine, sequestration, or other measure of protecting the public health or other cattle from the said diseases, as may, in the case then under examination, be considered by them best. Should the killing of one or more cattle so affcted be, in the judgment of the inspector, necessary for the protection of the public health, or other cattle, the inspector, before directing such killing, shall first notify the president or secretary of the State Board, reporting the reasons why he considers such killing necessary; the name of the owner or owners; the place where said cattle are, and the number to be destroyed. The president or secretary shall then order the killing, or such other measures as both, or either of them, may consider best.

4. All owners, keepers of cattle, or other persons having charge thereof, shall, for the purpose of proper examination thereof, if requested by the inspector of the State Board to do so, place the animal to be examined in stanchions, or such other place as may be provided for their restraint, for the time necessary for such examination.

5. To guard against the improper use or disposal of an animal or animals found to be suffering from tuberculosis, or other

contagious or infectious disease, the inspector may place on such animal or animals a lock and chain, or other device for marking said animal or animals, and all owners, keepers of cattle, or other persons having charge thereof, are cautioned against removing said lock and chain, or other device, without due permission in writing from an inspector of this Board. And the inspector, at the time of so marking an animal or animals, shall give, in writing, a notice to the owner, keeper, or person in charge, said notice to set forth the description of said animal or animals, how marked, the reason for said marking, and a warning that the removal of said animal or animals, or the removing or effacing of said markings, would be in violation of the provisions of chapter 487 of the Laws of 1892. And, in case any owner, keeper, or person in charge of said animal or animals, shall so remove or efface said markings or remove or otherwise dispose of said animal or animals, the inspector shall report the same to the president or secretary of the State Board of Health, setting forth in said report all facts pertaining to the case.

Physical examination by auscultation and otherwise was at first relied upon for the detection of the disease. Its insufficiency, however, was quickly demonstrated, the need of tuberculin soon made itself manifest and subsequently became the chief diagnostic agent. The previous rules were modified and the following substituted.

I. Physical examination will precede tests with tuberculin. When entering a herd, enough are to be examined to determine the probability of tuberculosis being present. If tuberculosis is decided to be present, all animals are to be tagged, preparatory to further tests. In general, before deciding upon the diagnosis, the tuberculin test will be used on all animals. It is discretionary with the inspectors to omit this test, however,

if they can positively certify, on physical diagnosis alone, the animal to be tuberculous.

II. Initial temperatures will be taken before tuberculin is injected. Two temperatures will be thus taken, one an hour before feeding and one an hour and a half after feeding. Experiments will be made as to the best time, morning or evening, for these initial temperatures.

III. Tuberculin will be injected so as to allow of seven hours' interval between the injection and the taking of temperatures. After the injections, animals will neither be fed nor watered until the result of the test is known. Temperatures, beginning seven hours after injection, will be taken until eighteen hours from the injection have elapsed, and they are to be taken at not less than two hours intervals.

IV. It will be considered, for the purpose of this service, that the normal temperature of cattle ranges from 99 degrees to 102 degrees Fahrenheit. When the temperature under the tuberculin test rises two degrees above the initial mean temperature, the animal is to be considered a suspect, and a subject for quarantine. A rise from two degrees above the initial temperature and upwards, to be considered as showing the animal is tuberculous, and a subject for slaughter. Where doubt is aroused as to the action of the tuberculin test or other matters affecting the animal, discretionary power is with the inspector to hold the animal in quarantine for further examination, or to kill.

V. In general only high grade cattle will be quarantined. The cases held may be incipient or advanced, where the conditions are such that perfect isolation can be maintained and proper experiments for future data made. In deciding what animals are to be thus held, and the method of quarantine, the inspector will exercise discretionary power.

VI. The inspectors will state in the monthly reports, and also in the detailed reports of temperatures, the breed to which the animal belongs.

Work was conscientiously begun in one or two of the great dairy centers of the State, and extended gradually as experience dictated.

The following is a statement of the herds examined, the cattle condemned as tuberculous, and the post-mortems thereon arranged according to counties.

An attempt was made to ascertain and tabulate the breed of each herd found tuberculous, so that the relative number of Jerseys, Guernseys and other varieties affected might be determined; but owing to incompleteness of notes kept, this was found to be impracticable. So far as possible the tuberculous cattle have been arranged under their respective breeds, but the arrangement is somewhat arbitrary, as the heading "Native, Mixed, and Unascertained," doubtless includes many belonging to one or other of the high grades.

The tabulation is further subject to criticism on the ground that in many cases the same herd, or part of the same herd, is noted two or three times. This is owing to the fact that such herds were visited more than once, and no record kept as to the number examined for the first time, for the second time and so on. The effect is, therefore, to make the number examined appear greater than it really is, and consequently, the percentage of the tuberculous cattle to the total number examined less than it should be. The other details, however, will, it is hoped, compensate, in a measure, for this defect.

SYNOPSIS OF

ALLEGANY

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED. Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Richburg	Hood, J. A.	1	1					1		1					1				

CAYUGA

Oakwood	Goodrich, A. H.	24	13			4	7	9		4			4	1	6			3	
Auburn	Lavner, J.	28	27	1															
Totals		52	40	1		4	7	9		4			4	1	6			3	

CHENANGO

Greene	Packard, C	9	9																

CLINTON

Clintonville	Squire, S.	22	15	1		6													

CORTLAND

East Homer	Parker, H.	17	17																
Cortlandville	Knapp, B.	11	9	1			1												
Totals		28	26	1			1												

DELAWARE

Delhi	Shaw, Perry C	33	26	1		1	5	24		20	1	1		2	24				
Bovina	Ormiston, J. L.	23	12			6	5												
Bloomville	Laurence, J. D.	34	34					8		6				2	8				
East Meredith	Blakely, Wm	23	19				4												
Davenport	Fisher, M.	24	24																
North Harpersfield	Dart, N. M.	55	29	2	6	13	6	45		1				*1	37	8			
West Davenport	Whitlock, H. B.	8	5				3												
Meredith	Ferguson, N. T.	24	12	1	2	8	1												
Davenport (P. O. Schenevus)	McCabe, Owen	8	5	1		2													
Sidney	Moore, Chas. N.	16	14			1	1												
Sidney	J. M. Denton & Sons.	13	11				2	1						1				1	
Totals		261	191	5	8	30	27	78		27	1	1		6	69	8		1	

HERDS EXAMINED.

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Gen. tuberculosis, last stage.	1	Curtice	Nov. 10, 1892	

COUNTY.

Tuberculous on all	9	Curtice	Sept. 5, 1892	Probable cause of infection: Cohabitation and milk.
		Curtice	Sept. 16, 1892	None diseased.
	9			

COUNTY.

		Law	Nov. 30; Dec. 1, 1892	One suffering from nasal catarrh.

COUNTY.

		Curtice	Nov. 3-4, 1892	One sick with pleurisy.

COUNTY.

See statement under post-mortem observations		Curtice	March 27, 1893	
		Law	March 10, 1893	One advanced tuberculosis.
See statement under post-mortem observations		Law	March 10, 1893	One abdominal tuberculosis.
		Curtice	March 27, 1893	

COUNTY.

28 tuberculous; 1 doubtful	34	Curtice	Aug. 5, 17, 1892	Hist. and physical condition bad.
Chronic bronchitis	1	Curtice	Oct. 5, 6, 1892	
8 with tuber. lesions; 4 d'btful	12	Curtice	Oct. 8-24, 1892	
Result doubtful	1	Curtice	Oct. 9-18, 1892	Recommends future examinations.
No tuberculous		Curtice	Oct. 10, 1892	Suffering from catarrhal disease.
45 tuberculous; 1 doubtful	55	Curtice	Oct. 19-26, 1892	*45 were Devon.
		Curtice	Nov. 18, 1892	No tuberculosis.
		Curtice	Nov. 27, 1892	
		Curtice	Nov. 14, 1892	No tuberculosis.
		Curtice	July 16, 1892	Not tuberculous.
Tuberculous	1	Curtice	July 16, 1892	
	94			

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Bangall	La Quir, Mrs.	90	86	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Gilbert, John S.	40	35	1	...	4	...	30	7	3	...	...	...	20	25	1	...	4	...
...	Howell, E. N.	55	41	2	...	9	3	5	...	2	...	...	1	2	5	...	...	...	...
Po'keepsie (town)	Van Wagoner, P. S.	53	52	1	...	...	...	2	...	...	...	...	...	2	2	...	...	...	...
Po'keepsie (town)	Bedell, Thos. H.	35	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Scofield, Marvin	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Van Wagner, H.	18	16	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Baright, F.	18	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Baright, A. J.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Mott, B. W	18	16	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Phelph, David	15	13	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Huster, Luther	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Briggs, Edgar	14	12	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Bates, Jno. H.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Hewlett, Irving	27	26	1	...	...	...	2	...	2	...	...	...	...	2	...	...	...	...
Pleasant Valley	Forman, Edw.	29	28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Wood, O. D.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Reed, L.	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Smith, E	24	23	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Van De Water, D.S.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Hoban, Alex	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Schryver, Geo.	30	24	1	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Allen, Geo. W	20	17	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Rohne, Richard	7	7	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Po'keepsie (town)	Campen, Wm.	13	9	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Halstead, Geo. S.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Siemen, F. W	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Verbank	Ham, Eugene	22	20	2	...	...	...	3	...	...	...	22	1	...	2	1	...	...	...
Poughkeepsie	Weels, Mrs. J. H.	39	38	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Camelot	Gill, Misses A. & E.	33	24	1	2	6	...	1	...	...	...	...	...	1	1	...	...	...	...
Poughkeepsie	Vassar College	57	40	1	...	5	11	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Scott, James	8	8	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Poughkeepsie	Little, Charles	14	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Todd, Carl	19	14	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Rymph, E. S	12	10	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Wiley, Chas.	12	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Dumphey, James	15	11	...	2	1	1	1	...	...	...	...	...	1	1	...	...	...	...
Clinton	Schereger, Edward.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Henry, James	29	26	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Uhl, Lottie C.	67	57	2	2	5	1	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Haveland, John E.	20	17	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...

ESSEX COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	.....	Faust	Dec. 7, 1892	Breed mixed Holstein and grades.
Tuberculous	3	Faust	May 26, 1893	.....
Tuberculous	5	Faust	July 28, 1893	.....
Tuberculous	.....	Faust	July 29-31, 1893	.....
.....	.....	Faust	Aug. 1, 1893	.....
.....	.....	Faust	Aug. 1, 1893	.....
.....	.....	Faust	Aug. 1, 1893	.....
.....	.....	Faust	Aug. 1, 1893	.....
.....	.....	Faust	Aug. 1, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 11, 1893	.....
.....	.....	Faust	Aug. 11, 1893	.....
.....	.....	Faust	Aug. 2, 1893	.....
.....	.....	Faust	Aug. 11, 1893	.....
.....	.....	Faust	Aug. 11, 1893	.....
.....	.....	Faust	Aug. 11, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
Tuberculous	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 14, 1893	.....
.....	.....	Faust	Aug. 15, 1893	.....
Tuberculous	3	Faust	Aug. 17, 1893	.....
.....	.....	Faust	Aug. 17, 1893	.....
Tuberculous	1	Faust	Aug. 28, 1893	.....
Tuberculous	1	Faust	Aug. 30, 1893	.....
.....	.....	Faust	Aug. 30, 1893	.....
.....	.....	Faust	Aug. 30, 1893	.....
.....	.....	Faust	Aug. 30, 1893	.....
.....	.....	Faust	Aug. 30, 1893	.....
Tuberculous	1	Faust	Aug. 30, 1893	.....
.....	.....	Faust	Sept. 4, 1893	.....
.....	.....	Faust	Sept. 5, 1893	.....
.....	.....	Faust	Sept. 5, 1893	.....
.....	.....	Faust	Sept. 6, 1893	.....

DUTCHESS COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
La Grange	Sleight, A. W.	23	14	1	2	4	2	2	...	...	...	...	...	2	2	...	...	...	...
La Grange	Hud. Riv. State Hos.	62	58	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Worrall, Harry	6	4	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Lacy, Robert H.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Reed, Charles,	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Robinson, Charles.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Gray, A. B.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Duncan, John G	10	10	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Po'keepsie (town)	Kimlin, R. J	16	8	1	...	4	3	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Tompkins, Sarah C.	13	9	...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Stoutenbergh, J. H.	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Sherwood, A.	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Hamblin, John H.	7	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Bain, H. N.	29	8	...	2	15	4	2	...	...	...	...	...	2	2	...	...	...	...
Poughkeepsie	Faust, Tobias	1	1	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Poughkeepsie	Lown, Mrs. T. B.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Rugar, Martin	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Degarmo, A.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Smith, John.	18	16	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Robinson, R. W.	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Wing, John S.	16	14	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Delameter, E.	12	10	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Halstedd, D S	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Baldwin, A.	20	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Holmes, Joel	15	10	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Hart, Wm.	19	13	...	2	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Howard, Chas.	21	16	1	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Sanders Bros.	7	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Curtis, H. M.	34	18	2	2	12	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Smith, Platt	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Van Wagner, P. L.	53	52	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Barnes, D.	24	18	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Degarmo, Silas.	33	30	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Williamson, Jas	14	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Colwell, D.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Cornell, Thos.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Titus, Robt.	19	15	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Clifford, Jess.	30	25	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Ulrick, Fred	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Rose, H. R.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Vasty, Fred.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

ontinued).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
erculous	2	Faust	Sept. 6, 1898	
		Faust	Sept. 6, 1898	
		Faust	Sept. 7, 1898	
		Faust	Sept. 7, 1898	
		Faust	Sept. 7, 1898	
		Faust	Sept. 7, 1898	
		Faust	Sept. 7, 1898	
erculous	1	Faust	Sept. 8, 1898	
		Faust	Sept. 8, 1898	
		Faust	Sept. 11, 1898	
		Faust	Sept. 11, 1898	
		Faust	Sept. 11, 1898	
		Faust	Sept. 11, 1898	
erculous	2	Faust	Sept. 13, 1898	Farm in town of Dover.
erculous	1	Faust	Sept. 26, 1898	
		Faust	Oct. 5, 1898	
		Faust	Oct. 5, 1898	
		Faust	Oct. 5, 1898	
		Faust	Oct. 5, 1898	
		Faust	Oct. 6, 1898	
		Faust	Oct. 6, 1898	
		Faust	Oct. 6, 1898	
		Faust	Oct. 6, 1898	
		Faust	Oct. 7, 1898	
		Faust	Oct. 7, 1898	
		Faust	Oct. 7, 1898	
		Faust	Oct. 9, 1898	
		Faust	Oct. 9, 1898	
		Faust	Oct. 9, 1898	
		Faust	Oct. 10, 1898	
		Faust	Oct. 10, 1898	
		Faust	Oct. 11, 1898	
		Faust	Oct. 11, 1898	
		Faust	Oct. 12, 1898	
		Faust	Oct. 12, 1898	
		Faust	Oct. 12, 1898	
		Faust	Oct. 12, 1898	
		Faust	Oct. 13, 1898	
		Faust	Oct. 13, 1898	
		Faust	Oct. 13, 1898	
		Faust	Oct. 13, 1898	

DUTCHESS COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Poughkeepsie	Turman, J. L.	12	9	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Leroy, Wm.	11	9	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Varick, Abner, 1st.	18	12	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Butt, M. D.	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Thorn, Henry	7	4	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Jaycox, C.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Knapp, J. W.	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Briggs, E. A.	12	8	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Petlion, L.	18	16	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Hallivine, Joe.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Varick, A., 2d.	16	15	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Malkemas, A.	14	10	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Wevendorfer, H.	11	6	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Jones, A.	11	6	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Palmatier, E. T.	8	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Lasher, Edgar	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Hughson, F.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Van DeWater, H. F.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Van Wagner, A.	15	12	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Cole, Charles.	12	10	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Stringham, H.	7	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Siemen, W. H.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Smith, U. B	15	14	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Leah, W. E.	11	9	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Haines, J. W.	11	10	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Cluny, George T.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Colgate, S. J.	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Cornell, J.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wappingers	Rowe, W.	17	12	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Wappingers	Doughty, S. B.	40	34	1	2	...	3	1	1	...	...	...	...	...	1	...	...	...	...
Wappingers	Burgen, S. T.	11	7	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
La Grange	Brownell, Mrs. J.	15	12	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Marquet, G. S.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Van Wagner, A.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Lasher, Seth.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Houghtaling, J.	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Vail, Charles.	8	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Van Wagner, James	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Hulbert, Alonzo	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Wilber, J. A. & H. R.	13	11	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Haver, Alonzo	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Masten, J.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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...em lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Faust	Oct. 14, 1893	
		Faust	Oct. 14, 1893	
		Faust	Oct. 14, 1893	
		Faust	Oct. 14, 1893	
		Faust	Oct. 14, 1893	
		Faust	Oct. 14, 1893	
		Faust	Oct. 24, 1893	
		Faust	Oct. 24, 1893	
		Faust	Oct. 24, 1893	
		Faust	Oct. 25, 1893	
		Faust	Oct. 25, 1893	
		Faust	Oct. 25, 1893	
		Faust	Oct. 25, 1893	
		Faust	Oct. 26, 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
	1	Faust	Nov., 1893	
		Faust	Nov. 21, 1893	
		Faust	Nov. 21, 1893	
		Faust	Nov. 21, 1893	
		Faust	Nov. 21, 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	
		Faust	Nov., 1893	

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.							
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.
Hyde Park	Van Wagner, H.	8	4	...	4	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Haver, James	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Todd, Ira	15	9	1	3	...	2	...	...	...	...	...	...	...	...	...
Poughkeepsie	Baldwin, A.	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Van Wyck, J.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Manchester	Van Kleek, E.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Manchester	Kirchner, Charles	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Manchester	McKinley, Helen.	12	9	...	2	1	...	...	...	...	...	...	...	...	...	...
Manchester	Van Kleek, Andrew	15	13	...	2	...	...	...	...	...	...	...	...	...	...	...
Manchester	Cornwell, John	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...
Manchester	Hayes, Ernest	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Hackensack	Van DeWater, Harv.	21	21	...	...	...	...	1	...	...	...	...	...	1	1	...
Hackensack	Lawrence, J.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Hackensack	Daley, Jane	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...
Hackensack	Briggs, Alonzo	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Hackensack	Van Kleek, John D.	15	13	...	2	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Lagarce, Fred	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde Park	Clapp, Edgar	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...
Salt Point	Young, Edward	22	16	2	...	4	0	...	...	...	...	...	...	...	...	...
Salt Point	Herrick, William	28	19	1	2	6	...	1	...	1	...	...	...	1	...	...
Salt Point	Conklin, E. W	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Salt Point	Burtsell, William.	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Salt Point	Leggett, Mr.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Howell, E. N.	46	35	2	...	9	...	5	...	2	...	...	1	2	5	...
Rhinebeck	Morton, Levi P.	72	7	...	...	65	...	20	...	2	...	...	16	2	19	1
La Grange	Titus, Robert H.	17	17	...	...	...	...	1	1	...	...	...	...	...	1	...
Moore's Mills	Yeomans, H. J.	12	7	1	...	4	...	1	1	...	...	...	...	...	1	0
Moore's Mills	Smith, T. B.	5	4	...	...	1	...	...	...	...	...	...	...	...	...	...
Moore's Mills	Taylor, F.	11	7	...	2	2	...	...	...	...	...	...	...	...	...	...
Moore's Mills	Barmore, Clark.	12	8	...	2	2	...	...	...	...	...	...	...	...	...	...
Moore's Mills	Fish, John.	9	7	...	...	2	...	...	...	...	...	...	...	...	...	...
Moore's Mills	Knapp, John.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Moore's Mills	Sackett, S.	51	46	1	...	2	2	...	...	...	...	...	...	...	...	...
Moore's Mills	Velie, Ed. J.	15	15	...	...	...	...	2	1	...	1	...	...	...	2	...
La Grange	Brinkerhoff, C. V.	9	6	...	...	3	...	...	...	...	...	...	...	...	...	...
La Grange	Velie, A.	21	17	1	...	1	2	0	...	...	...	...	...	...	...	...
Fishkill	Verplank, Sam.	37	26	1	2	6	2	3	...	...	...	...	2	1	3	...
Fishkill	Verplank, Sam.	25	20	1	...	4	...	2	...	...	...	...	2	...	2	...
Fishkill	Bedforte, A. A	24	21	1	2	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Underhill, C. S	19	14	1	...	4	...	...	...	...	...	...	...	...	...	...
Fishkill	Davison, James	13	11	...	...	...	2	...	...	...	...	...	...	...	...	...
Fishkill	Mead, James V.	13	12	1	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions	Number killed.	Inspector.	Date of examination,	Remarks.
....	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	...	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov,. 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov.. 1893	
Tuberculous.	1	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	...	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
	....	Faust	Nov., 1893	
Tuberculous	1	Faust	Nov., 1893	
	....			
	...			
	....	Faust	Nov., 1893	
Tuberculous	5	Faust	Nov., 1893	
Tuberculous	21	Faust	Nov. 10, 1893	
Tuberculous	1	Faust	Dec. 1, 1893	
Tuberculous	1	Faust	Dec. 2, 1893	
	....	Faust	Dec. 2, 1893	
	...	Faust	Dec. 2, 1893	
	....	Faust	Dec. 2, 1893	
	....	Faust	Dec. 2, 1893	
	....	Faust	Dec. 9, 1893	
	....	Faust	Dec. 9, 1893	
Tuberculous	2	Faust	Dec. 9, 1893	
	....	Faust	Dec. 13, 1893	
	....	Faust	Dec. 13, 1893	
Tuberculous	3	Faust	Dec. 15, 1893	
Tuberculous	2	Faust	Dec. 15, 1893	
	....	Faust	Dec. 15, 1893	
	....	Faust	Dec. 15, 1893	
	....	Faust	Dec. 16, 1893	
	....	Faust	Dec. 16, 1893	

DUTCHESS COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Fishkill	Brinkheroff, Tobias.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Brinkerhoff, Chas	17	16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Rives, R. W.	17	14	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Lansburg, R.	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Verplank, Sam L.	52	42	2	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Vassar College.	2	2	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Tivoli	Worthington, Rob.	4	4	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Pleasant Valley	Smith, J. B. & M. E.	24	23	1	...	...	...	2	1	1	...	...	...	...	2	...	...	...	...
Pleasant Valley	Furman, Ed.	30	28	2	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Pleasant Valley	Russell, Everet	18	8	1	2	6	1	...	...	...	...	...	...	...	...	...	...	...	...
Poughkeepsie	Van Wagner, P. L.	51	50	1	...	...	...	3	1	1	...	...	...	1	3	...	...	...	...
Tivoli	Clarkson, Ed.	60	42	2	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Fishkill	Verplank, L.	52	42	2	...	8	...	17	4	...	...	...	9	4	15	2	...	...	...
Stanfordville	Knapp, A. B	11	4	1	...	4	2	1	...	1	...	...	...	...	1	...	...	...	...
Po'keepsie (town)	Van Wagner, R. L.	48	47	1	...	...	...	24	...	...	...	...	...	24	23	1	...	...	...
Hyde Park	Gilbert, J. S.	18	14	...	...	2	2	1	...	...	...	...	...	1	1	...	...	...	...
Hyde Park	Wiley, Mr.	13	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Valley	Bower, W. H.	6	5	...	...	1	...	1	...	1	...	...	...	...	1	...	...	...	...
Rhinebeck	Krum, James	18	16	...	...	1	1	1	1	...	...	...	...	...	1	...	...	...	...
Clinton	Thompkins.	9	4	...	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Salt Point	Griff, Joe.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salt Point	Clark	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rhinecliff	Parliman, D. L	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Millbrook	Wing, J. D.	55	28	1	2	14	10	19	...	19	...	...	...	...	19	...	...	...	...
La Grange	Uhl, L.	73	72	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Willow Brook	Downing, G. J.	14	11	1	...	2	...	2	...	2	...	...	...	...	2	...	...	...	...
Willow Brook	Smith, O. R.	24	18	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Willow Brook	Thorn, O.	116	59	7	...	32	18	...	...	...	...	...	...	...	...	...	...	...	...
Willow Brook	Wing, W. T.	30	11	...	2	4	3	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Lauerman, M.	4	4	...	...	...	...	2	...	...	...	...	1	1	2	...	...	...	...
La Grange	Stringer, M.	38	31	1	2	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Po'keepsie (town)	Rymph, H. L.	7	6	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Rhinebeck	Merritt, Douglas	20	10	1	4	5	...	14	...	12	...	...	...	2	11	3	...	...	...
Rhinebeck	Stickles, F. B.	15	12	1	2	...	...	0	...	...	...	...	...	...	...	...	...	...	...
Rhinebeck	Moore, W. A.	6	6	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Stormville	Storms, G. J.	51	31	1	2	17	...	1	...	...	...	...	...	1	1	...	...	...	...
Tivoli	Clarkson, E.	60	42	2	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Rhinebeck	Haines, A. F	21	16	1	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...
Millbrook	Wing, J. D.	33	14	1	2	6	10	...	...	...	...	...	...	...	...	...	...	...	...
Totals	...	3847	3136	101	105	397	108	201	15	51	0	22	17	96	188	9	...	4	...

(Continued).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Faust	Dec. 16, 1893	.....
.....	....	Faust	Dec. 16, 1893	.....
.....	....	Faust	Dec. 16, 1893	.....
.....	....	Faust	Dec. 16, 1893	.....
.....	...	Faust	Dec. 28-30, 1893	.....
1 tuberculous; 1 pneumonia	2	Faust	Dec. 29, 1893	.....
Tuberculous	1	Faust	Jan. 1, 1894	.....
Tuberculous	2	Faust	Jan. 2, 1894	.....
Tuberculous	1	Faust	Jan. 2, 1894	.....
.....	....	Faust	Jan. 2, 1894	.....
Tuberculous	3	Faust	Jan. 2, 1894	.....
.....	...	Faust	Jan. 6, 1894	.....
Tuberculous	17	Faust	Jan. 4, 1894	.....
Tuberculosis	1	Faust	Jan. 27, 1894	.....
Tuberculous	24	Faust	Jan. 8, 1894	.....
Tuberculous	1	Faust	Feb. 1, 1894	.....
.....	....	Faust	Feb. 1, 1894	.....
Tuberculous	1	Faust	Feb. 1, 1894	.....
Tuberculosis (1).....	2	Faust	Feb. 3, 1894	.....
.....	....	Faust	Feb. 7, 1894	.....
.....	...	Faust	Feb. 8, 1894	.....
.....	....	Faust	Feb. 8, 1894	.....
.....	...	Faust	Feb. 9, 1894	.....
See post-mortem.....	21	Faust	Feb. 10, 1894	Two not tuberculous.
.....	....	Faust	Feb. 12, 1894	.....
Tuberculous	2	Faust	Feb. 13, 1894	.....
.....	....	Faust	Feb. 13, 1894	.....
.....	....	Faust	Feb. 13, 1894	.....
.....	....	Faust	Feb. 19, 1894	.....
Tuberculous	2	Faust	Feb. 20, 1894	.....
.....	....	Faust	Feb. 26, 1894	.....
Tuberculous	1	Faust	Feb. 20, 1894	.....
Tuberculous	14	Faust	March 1, 1894	.....
.....	....	Faust	March 1, 1894	.....
Tuberculous	1	Faust	March 1, 1894	.....
Tuberculous	1	Faust	March 5, 1894	.....
.....	....	Faust	March 6, 1894	.....
.....	....	Faust	March 8, 1894	.....
.....	....	Faust	March 29, 1894	.....
.....	244			

HERKIMER

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED. Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Paine's Hollow...	Robinson, J. N.	34	23	1	...	4	6	1	...	...	...	...	...	1	1	...	...	...	...
Mohawk	Bliss, Herman.....	31	12	2	...	17	...	21	...	1	...	...	...	20	12	...	...	9	...
Totals	.....	65	35	3	...	21	6	22	...	1	...	...	...	21	13	...	...	9	...

JEFFERSON

Woodville	Converse, F. A.....	18	9	3	...	6	...	6	...	...	...	6	...	...	5	1	...	...	...
Woodville	Wood, George	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodville	Converse, F. A.....	....	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Totals.	.....	20	11	3	...	6	4	6	...	...	...	6	...	...	5	1	...	...	...

LIVINGSTON

Avon	Wiard, M., Jr.....	60	59	1	...	...	...	11	2	...	...	...	...	9	11	...	...	...	...
Avon, East.....	Dana, William E...	49	42	.	...	3	4	25	...	6	...	...	...	19	25	...	...	...	...
Totals	....	109	101	1	...	3	4	36	2	6	...	...	...	28	36	...	...	...	...

MONROE

Pittsford.....	Hawley, Frank	151	87	5	..	...	59	72	...	72	...	...	...	..	69	3	...	...	...
Penfield	Higbie, Myron	5	5	...	...	...	...	5	...	5	...	...	...	..	5	...	...	...	...
Rochester.....	Gulner, Jacob.....	13	12	1	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Brighton	Coggswell, P. J.....	69	41	10	...	12	6	9	...	9	...	...	...	..	9	...	...	...	...
Rochester..... ...	Margareth Convent	5	5	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Rochester.....	St. Mary's Hospital.	21	20	1	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Rochester.....	St. Mary's Orphan Asylum.....	1	1	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Rochester.....	St. Patrick's Orphan Asylum	3	3	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Roches'r(Penfield)	Westfall, Gilbert...	38	37	1	...	...	...	25	10	...	...	...	...	15	25	...	...	0	...
Greece	Hondorf, Henry E..	39	30	2	...	4	3	1	...	...	...	...	...	1	1	...	...	...	...
Fairport	Richberg, F.....	8	4	4	...	...	...	.	...	...	...	...	...	..	..	...	...	...	...
Pittsford.....	Hawley, Mrs.....	32	15	1	...	...	16	17	...	17	...	...	...	..	16	1	...	...	...
Rochester.	Nickelson, Mr.....	1	1	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
Rochester (P. O.).	Anthony, Mr. G.....	10	10	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
(Irondequoit).....	Anthony, Mr. G.....	....	....	..	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Totals.....	.....	396	271	25	...	16	84	130	10	103	...	...	...	17	126	4	...	...	...

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Incipient tuberculous	1	Mackey	Nov. 29-30, 1893	
Tuberculous on 21	81	Curtice	Mar. 31, June 29, '93	
	82			

COUNTY.

Tuberculous	7	Curtice	June 22, 1893	One perfectly healthy.
		Curtice	June 26, 1893	One doubtful.
		Curtice	June 27, 28, 1893	Fed on milk of No. 3.
	7			

COUNTY.

Tuberculous	11	Mackey	Feb. 27, 1894	Supplies milk to Rochester City Hospital.
Tuberculous	25	Mackey	Mar. 9, 1894	Supplies milk to State Indian School.
	36			

COUNTY.

Tuberculous	72	Curtice & Mackey	Dec. 30, 1893	
	5	Curtice	Jan. 25, 26, 1894	
		Curtice	Feb. 18, 1894	
Tuberculous	9	Curtice	Feb. 1, 9, 1894	
		Mackey	Feb. 2, 3, 1894	
		Mackey	Feb. 3, 1894	
		Mackey	Feb. 3, 1894	
		Mackey	Feb. 3, 1894	
	25	Mackey	Feb. 5, 6, 7, 1894	
	1	Mackey	Feb. 8, 11, 12, 1894	
		Mackey	Feb. 20, 21, 1894	
Tuberculous in 13; 4 declared tub. according to tub. test	17	Mackey	Feb. 21, 22, 1894	See post-mortems.
		Mackey	Feb. 27, 1894	
		Mackey	March 6, 1894	Mixed herd.
Tuberculous by tub. test	1	Mackey	March 12, 1894	
	130			

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Monroe	Gregory, M. C.	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Burns, Father	41	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Clark & Anderson	14	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Letts, Abe	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Clark & Anderson	26	24	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sweezey, W	19	18	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Galloway, Mr	52	52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Creedon, Wm	43	41	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Knight, C.	39	35	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	O'Gorman, Mr	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Knapp, Albert	34	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Riggs, Mrs	35	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bloomingburgh	Goldswait, Mrs	29	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bloomingburgh	Browell, Mrs	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Millspaugh, Mr	55	54	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Turner, P	32	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Howell, Nat	82	68	...	4	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Hallock, T. B.	27	26	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Townsend, S. C.	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Cromwell, Jos. T.	31	30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Hallock, T. B.	33	32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Carpenter, F.	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oxford	Young, Joel	62	61	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Fenkle, B.	19	19	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Monroe	Smith, Hopkin	24	24	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Blooming Grove	Woodhull	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Vanderbeck	30	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Rogers, T. J.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Highland Mills	Lamoreaux	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Lewis, P. A.	54	53	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Monroe	Webb, C.	52	51	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	George, S. W.	41	27	...	...	4	10	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Smith, A. L.	37	28	2	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Coldharn, Chas	18	13	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Hunter, Chas.	26	21	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	O'Neil, Frank	30	29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sutherland, Wm.	34	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Moffat, S. L.	78	69	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Stevens, S	19	16	1	...	...	2	3	...	1	1	...	...	1	3	...	...	...	...
Chester	Fitzgerald	42	33	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	West, Irving	20	19	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	McLean.....	Jan., 1893	.....
Not tuberculous	1	McLean.....	Jan., 1893	.....t.
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
.....	....	McLean	Jan., 1893	....
....	....	McLean.....	Jan., 1893	.....
.....	....	McLean..... .	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	....
Tuberculous	1	McLean.....	Jan., 1893	.....
Tuberculous	1	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	... .
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
Tuberculous	1	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
....	....	McLean	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	....
....	....	McLean.....	Jan., 1893	.....
....	....	McLean...	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
Tuberculous	3	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....

ORANGE COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Woodbury	Hudson, Mrs	22	16	1	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Hallock, Ed	19	16	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, Eugene	55	45	2	...	5	3	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Anderson, Clark	38	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Brooks, Geo	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Brooks, Wm	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Grescomb, Mr	38	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Hunter, J. R	18	17	1	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...
Chester	Seeley, Almont	23	22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Helmes, J. W	14	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Sears & Howell	81	60	1	...	14	6	48	...	4	...	20	...	24	47	1	...	...	...
Chester	Chamberlain, R. W.	66	59	1	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sutherland, Wm	47	40	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Gregory, M. C	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Strong, Fred	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Hoyt, J. W	51	49	1	...	...	1	1	1	...	...	...	...	...	1	...	...	...	...
Woodbury	Hunter, Nat	15	11	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Purcell, Wm	10	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Bull, Nat	50	25	2	...	18	5	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Carpenter & Johns'n	28	25	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Keegan, Lawrence	22	15	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, Hopkin	21	19	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, John D	20	15	...	...	...	5	1	...	...	...	...	...	1	1	...	...	...	...
Monroe	Gigneau, Mrs	22	7	...	...	12	3	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Hunt, John S	19	18	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Hall, James	25	22	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Smith, Moses	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Kelley, Dan	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Smith, De Mott	15	9	...	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Smith, Ellsworth	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Teachman, Martin	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Halleck, John	21	14	1	...	5	1	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Darlinghouse, David	11	7	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Bull, Floyd C	30	29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Konnight, M	23	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Mapes, Franklin	30	22	1	...	5	2	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Creegan, Jas	18	1	1	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Ryder, F	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, Mrs. Wm	29	27	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Mapes, Chas	9	7	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Howell, N. B	24	21	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	McLean.....	Jan., 1893	.....
.....	...	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
.....	1	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean.....	Jan., 1893	.....
Tuberculous	1	McLean.....	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	.....
....	....	McLean..	Feb., 1893	....
See post-mortems.....	62	Faust.....	Jan. 18, 1894	.....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
....	...	McLean.....	Feb., 1893	....
....	....	McLean.....	Jan., 1893	.....
Tuberculous	1	McLean.....	Jan., 1893	....
.....	....	McLean	Jan., 1893	....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	.....
.....	....	McLean..	Jan., 1893	.....
.....	....	McLean.....	Jan., 1893	... .
Tuberculous	1	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	....
.....	....	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	....
.....	....	McLean.....	Feb., 1893	....
.....	...	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
.....	....	McLean.....	Feb., 1893	.....
.....	1	McLean.....	Feb., 1893	.....
....	....	McLean.....	Feb., 1893	.....

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Monroe	Hunter R.	19	18	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Oxford	Roe, T. B.	44	41	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Oxford	Harvy, T	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oxford	Woodhull	26	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Hoyt, J. W	51	49	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sutherland, Wm.	48	43	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Thompson, J. M.	23	20	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Conklin, Floyd	10	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Roe, C. B.	37	36	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Valentine, Mrs. L.	32	29	1	...	1	1	1	...	...	...	...	...	1	1	...	...	...	...
Cornwall	Smith, David	18	12	1	...	3	2	2	...	...	...	...	...	2	2	...	...	...	...
Woodbury	Seamon, James	28	20	1	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Joyce, Mrs. E. T.	23	18	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Ford, John W.	27	20	1	...	6	...	1	...	1	...	...	...	...	1	...	...	...	...
Chester	Edmond, King	13	10	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Durand, S. S	25	23	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Seeley, James	45	45	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Chester	Board, J. H.	40	37	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Murray, Frank	33	31	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Hands, E. S.	18	14	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Taylor, A. B.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Scott, W. A.	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Shaw, C. W.	19	10	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Van Duser, Henry	8	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Beeker, C. H	65	60	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Cocks, J. B.	13	11	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Townsend, Mrs. H. C.	25	24	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Brooks, Samuel	16	13	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Brown, Wm.	9	7	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	McGill, James	14	12	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Perkins, C. E.	6	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Wood, J.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Highlands	Cromwell, P. T.	32	31	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Mosher, A. T.	53	42	1	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Johnson, Chas. H.	48	46	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Seeley, Fred. B.	53	50	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Banker, J.	33	32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Seeley Fred. B.	90	62	2	...	26	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Thompson, W. M.	33	31	1	...	1	...	1	...	...	...	1	...	...	1	...	...	...	...
Hamptonburgh	Pierson	45	30	1	...	9	5	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Carpenter, Wm.	22	21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		McLean & Gilbert.	March 15, 1893	
		Gilbert	March 15, 1893	
		Gilbert	March 15, 1893	
		Gilbert	March 15, 1893	
		McLean & Gilbert.	March 15, 1893	
		McLean & Gilbert.	March 15, 1893	
		McLean & Gilbert.	March 15, 1893	
	0	McLean & Gilbert.	March 15, 1893	
Tuberculous	1	McLean & Gilbert.	March 15, 1893	Killed March 31, 1893.
Tuberculous	2	Gilbert	June 6-9, 1893	
Tuberculous		Gilbert	June 6-9, 1893	
Tuberculous	2	Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
Tuberculous	1	Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 6-9, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
		Gilbert	June 13-14, 1893	
Tuberculous	1	Gilbert	June 29, 1893	Killed July 14.
		Gilbert	June 29, 1893	
		Gilbert	June 29, 1893	

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.						Cows.	Bulls.	Steers.	Heifers.	Calves.
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.					
Hamptonburgh ..	Parsons, C.....	27	21	1	...	4	1	...	...	...	...	...	...	...	...	..	...	...	...
Hamptonburgh ..	Harlow, Emmet....	31	22	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh ..	Seacord, W. H	52	33	1	2	11	5	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh ..	Carpenter, Wm.....	0	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh ..	Alton, Geo.	36	32	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh ..	Cahill, Patrick.....	54	42	...	...	5	7	...	...	...	...	...	...	...	...	...	...	...	..
Hamptonburgh ..	Brethings, Mark....	40	26	...	...	14	...	...	...	...	...	...	...	...	...	...	...	...	..
Bellvale.....	Wisner, W. H.....	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Burdick, Julia.....	35	26	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Wright, Mrs. H.....	25	19	...	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Rumsey, G. S.....	40	39	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Sayer, David.....	20	18	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Colwell, S. & C.....	17	16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Papprino, C. P. S...	29	26	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Shehan, Wm.....	28	27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellvale.....	Colvill, Mrs. A. C ...	31	30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester (S'gar L'f)	French, Robt..	28	17	1	...	3	7	...	...	...	...	...	...	...	...	...	...	...	...
Chester (S'gar L'f)	Tulfter, Frank.....	31	20	1	4	3	3	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Knap	23	17	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Wood, J. G., est. of.	23	22	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Chester	Banker, T. W	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Walden, Ira.....	20	15	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Stevens, A. W	41	40	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Shehan, Wm	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Shehan, T	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Stevens, A. W	27	26	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Tuttle, J. B....	48	41	2	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Bull, J. M.....	35	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Duveland, O	35	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Green, DeWitt.....	45	38	7	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Green, E. D	39	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Mill, W. E.....	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Hardy, Wm	17	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Hulbert, J. G.....	18	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Stevens, M. D	19	15	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Quackenb'sh, Mrs. L	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Sutherland, Wm....	43	33	...	...	5	..	2	...	...	...	...	...	2	2	...	...	...	...
Monroe.....	Bull, K. D.	19	19	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Monroe..... ..	Smith, John W	18	17	...	...	1	...	1	...	...	...	...	...	1	1	...	...	...	...
Turners	Sutherland, A. C ...	33	32	1	...	...	...	2	...	...	...	...	...	2	2	...	...	...	...
Turners	Thompson, J. N	71	53	3	15	...	...	1	...	...	...	...	...	1	1	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Gilbert	June 29, 1893	.....
.....	....	Gilbert	June 29, 1893	.....
.....	....	Gilbert	June 29, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
Tuberculous	1	Gilbert	July 19, 1893	Killed July 28.
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
.....	....	Gilbert	July 19, 1893	.....
Tuberculous	2	Gilbert	July 28, 1893	Killed August 8, 1893.
Tuberculous	1	Gilbert	Aug. 4, 1893	Killed August 10, 1893.
Tuberculous	1	Gilbert	Aug. 9, 1893	Killed August 18, 1893.
Tuberculous	2	Gilbert	Aug. 10, 1893	Killed August 17, 1893.
Tuberculous	1	Gilbert	Aug. 10, 1893	Killed August 18, 1893.

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.						Cows.	Bulls.	Steers.	Heifers.	Calves.
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.					
Turners	Clark, G. M.	20	18	1	...	1	...	2	...	...	...	...	...	2	2	...	...	...	...
Turners	Keegan, Lawrence	21	16	2	...	3	...	2	...	...	...	...	...	2	2	...	...	...	...
Turners	Sutherland, Dan. H.	15	14	...	...	1	...	1	...	...	...	...	...	1	1	...	...	...	...
Central Valley	Thorn, David	22	20	1	...	1	...	1	...	...	...	...	...	1	1	...	...	...	...
Central Valley	Elsner, Dr. E. S.	22	19	1	2	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Central Valley	Mead, S.	29	28	1	...	...	...	8	...	...	...	...	...	8	8	...	...	...	...
Chester	Bull, John F.	23	21	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, H.	27	26	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Bull, Willard	50	34	1	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Compton, H.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Post, P. S.	26	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Hance, J. R.	16	13	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Stevens, Josiah	23	19	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Thompson, W. J.	31	28	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Fitzgerald, Chas.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Higgins, Jno	16	14	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Smith, W. G.	18	16	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Meyers, S. M.	8	6	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Burr, E.	8	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Sutherland, A. W.	38	35	1	...	2	0	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Paterson, J.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Campbell, C.	21	19	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Tard, A. C.	9	8	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Burdsall, Harvey	21	17	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Oram, F. F.	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Weyant, Geo. W.	22	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Hunter, Geo. W.	40	28	2	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Cornell, Joe	19	17	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Brown, J. C.	16	11	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Campbell, J.	17	15	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Caren, Thos.	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Webb, Sam	34	32	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Rene, Webb.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Barnes, John	9	4	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Ganon, John	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sheridan, D.	13	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Brown, F.	24	19	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall	Findley, Jane	81	68	3	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Miller, D.	12	4	1	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Taylor, A.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Kirby, W.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Tuberculous	2	Gilbert	Aug. 10, 1893	Killed August 17, 1893.
Tuberculous	2	Gilbert	Aug. 10, 1893	Died August 12, 1893.
Pulmonary phthisis	1	Gilbert	Aug. 10, 1893	Killed August 17, 1893.
Tuberculous	1	Gilbert	Aug. 10, 1893	Killed August 17, 1893.
Tuberculous	1	Gilbert	Aug. 11, 1893	Killed August 18, 1893.
Tuberculous	8	Gilbert	Aug. 18, 1893	Killed August 24, 1893.
		Gilbert	Aug. 8, 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
No tuberculous	1	Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Blooming Grove..	Thompson, George .	33	28	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Thompson, Andrew.	29	23	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Merritt, George.....	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Tinhiel, W. B.....	22	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Strong, J. W.....	29	20	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Tuthill, H. S.....	18	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Harriman, E. H.....	28	27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Knight, Wm. H.....	33	29	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Mead, S.....	39	38	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Turner, G.....	27	21	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Peckham, George ..	23	18	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Earl, S. C.....	21	18	1	...	2	...	1	...	...	...	...	...	1	1	...	...	...	...
Monroe.....	Barr, Wm. R.....	25	13	1	2	9	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury	Smith, Mrs. Wm....	8	2	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Bush, Peter	16	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Bush, Samuel	16	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Van Tassel, Ben.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Tanner, Peter.....	26	18	1	...	7	...	2	1	1	...	...	...	...	2	0	...	...	...
Goshen.....	Mable, John.....	10	8	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Otis, J. B.....	30	30	...	...	...	...	3	...	...	...	...	...	3	3	...	...	...	...
Monroe.....	Griffin, Mrs. E... ..	3	2	...	...	1	...	1	...	...	1	...	...	...	1	...	...	...	...
Goshen.....	Howell, B.....	74	60	1	2	11	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Howell, S. J.....	23	19	1	...	3	...	1	...	...	...	...	...	1	1	...	...	...	...
Goshen.....	Banker, Fred'k	23	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Tuthill, Joseph	21	20	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Goshen.....	Farley, J. G.....	40	33	1	...	6	...	2	...	1	...	...	...	1	2	...	...	...	...
New Windsor	Parsons, E. D.....	55	35	...	...	20	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Humphry, G.....	9	8	...	..	1	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Bushman, A.....	20	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Campin, Jas.....	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Morrison, R. E.....	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Fulton, J.....	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Alton, Jas.....	32	25	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Gerow, John T.....	36	35	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Davis, Wm. M.....	31	25	1	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Davis, P. B.....	46	45	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Furinan, N..... ..	9	6	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Smith, H. E.....	29	28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Law, James.....	22	20	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Hawkins, S. W.....	25	16	1	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Tuthill, N.....	20	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
Tuberculous	1	Gilbert	Aug. 23, 1893	Killed September 8.
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
		Gilbert	Aug., 1893	
Tuberculous	2	Gilbert	Aug. 25, 1893	
		Gilbert	Aug. 25, 1893	
Tuberculous	3	Gilbert	Aug. 25, 1893	
Tuberculous	1	Gilbert	Oct. 3, 1893	Killed October 6, 1893.
		Gilbert	Oct. 3, 1893	
Tuberculous	1	Gilbert	Oct. 3, 1893	Killed October 20, 1893.
		Gilbert	Oct. 3, 1893	Killed October 20, 1893.
Tuberculous	1	Gilbert	Oct. 3, 1893	
Tuberculous	2	Gilbert	Oct. 3, 1893	Killed October 25, 1893.
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Goshen	Newman, Mrs. N.	18	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Hargert, Mrs.	49	35	1	...	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Coleman, A. H.	52	37	1	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen	Johnson, Asher	81	30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Murphy, Dennis	20	15	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Mapes, Wm. E.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Roe, James	41	38	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Hackett, John	19	18	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Edwards, James	47	41	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Green, J. H.	53	52	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Seeley Mrs. J. A.	22	20	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Ketcham, C. L.	45	30	1	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Cole, E.	38	26	1	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamptonburgh	Hawkins Bros	67	53	2	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Bull, S. S	33	32	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Blooming Grove	Sears & Howell	81	60	1	...	14	6	48	...	4	...	20	...	24	47	1	...	...	...
Blooming Grove	Bull, C. F.	47	32	2	...	10	3	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Breethaupt, J.	37	29	2	...	3	3	1	...	...	...	...	...	1	1	...	...	...	...
Blooming Grove	Cooley, Wm. A.	13	10	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Cooley, Frank S.	13	10	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Earl, Wm.	30	27	...	...	2	1	1	...	...	...	...	...	1	1	...	...	...	...
Turners	Rake, Joseph.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Turners	Barnes, Wm.	22	20	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Turners	Thompson, Alex.	46	44	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Courter, Joseph S.	44	33	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Smith, Gilbert	36	35	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Brewster, H. S.	20	18	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Brewster, F. C.	23	19	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Howell, C. H.	42	34	1	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Clark & Anderson	38	34	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Sears & Howell	92	66	3	...	22	1	1	...	1	...	...	...	1	...	...	...	...	...
Chester	Roe, Henry M.	67	65	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Demerest, N.	33	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Wood, H. W.	74	57	3	...	5	9	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Seeley, David R.	49	47	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Durland, F. S.	62	52	2	...	2	6	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Owens, E. G	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Mabee, Jesse	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Horton, T. D	29	19	...	...	6	4	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Smith, Gilbert T.	36	29	1	...	6	...	2	...	...	...	...	...	2	2	...	...	...	...
Blooming Grove	Tuthill, C. H.	32	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
		Gilbert	Oct., 1893	
	0	Gilbert	Oct. 12, 1893	
	2	Gilbert	Oct. 12, 1893	
		Gilbert	Oct., 1893	
	1	Gilbert	Oct. 19, 1893	
Tuberculous	1	McLean	Feb. 17, 1893	
Tuberculous 48	62	Faust	Jan. 28, 1894	
		Gilbert	April 3, 1893	
Tuberculosis	1	Gilbert	April 3, 1893	
		Gilbert	April 3, 1893	
		Gilbert	April 3, 1893	
Tuberculosis	1	Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
		Gilbert	April 4, 1893	
	1	Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
		Gilbert	April 6, 1893	
Tuberculosis	2	Gilbert	April 6, 1893	
		Gilbert	April 13, 1893	

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Blooming Grove..	Tuthill, M. C.....	22	21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Roe, T. H.....	35	34	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Conklin, W. R....	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Conklin, W. R.....	29	23	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Green, J. H.....	53	52	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	Jerow, Jay	35	29	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Bull, Nelson J.....	20	18	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Tuthill, F. D.....	34	33	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Tuthill, B	32	29	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Shous, C. R.....	61	47	3	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Roe, N	74	50	1	...	18	5	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Hulse, J.....	31	26	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Mangin, J.....	23	20	1	...	2	...	5	1	...	...	...	...	4	5	...	...	...	...
Blooming Grove..	Bull, C. R.....	44	43	1	...	...	..	1	...	...	...	...	...	1	1	...	...	...	...
Blooming Grove .	McLaughlin, L. H...	44	32	2	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	LaDue, H. C.....	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Seamond, W. T.....	34	31	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Earls, E.....	29	20	1	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Benjamin, H.....	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Coleman, C. S.....	20	15	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	McNamara, M.....	46	40	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Hulse, C. B	34	27	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Hasbroock, H.....	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove..	Smith, Dr. Chas. P..	43	40	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Young, Henry	43	42	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Leonard, Wm.	68	60	1	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Bull, Wm.....	38	37	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	Sutherland, Wm....	43	39	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe..... ...	Lamereaux, W. A..	17	12	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Smith, Geo. K	28	27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Wells, Henry S.....	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe.....	Lewis, J	25	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen.....	Otis, Josiah.....	39	37	0	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester	Tice, E. W.....	30	26	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Arden	Harriman, E. H....	50	43	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Arden	Harriman, E. H.....	34	24	1	...	8	1	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Bradner, B. D	36	35	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Rumsey, S. S.....	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Benedict, Mrs.....	20	19	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Hurlbert, Jesse.....	47	47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Bloom, F. R.....	34	31	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Gilbert	April 13, 1893	
		Gilbert	April 13, 1893	
		Gilbert	April 13, 1893	
		Gilbert	April 13, 1893	
		Gilbert	April 13, 1893	
		Gilbert	April 13, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
		Gilbert	April 21, 1893	
Tuberculous	5	Gilbert	April 21, 1893	
Tuberculous	1	Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 27, 1893	
		Gilbert	April 28, 1893	
		Gilbert	April 28, 1893	
		Gilbert	April 28, 1893	
		Gilbert	April 28, 1893	
		Gilbert	April 28, 1893	
		Gilbert	Aug. 24, 1893	
		Gilbert	Aug. 24, 1893	
		Gilbert	Aug. 30, 1893	
Actinomycosis or big jaw	1	Gilbert	Aug. 30, 1893	
		Gilbert	Aug. 30, 1893	
		Gilbert	Aug. 30, 1893	
		Gilbert	Aug. 30, 1893	
		Gilbert	Aug. 30, 1893	
		Gilbert	Aug. 30, 1893	

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Aldernay.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Chester	Ten Eyck, G. W.	21	20	1															
Chester.	Larve, J. G.	13	13																
Chester	Hulbert, S. S.	35	35																
Chester	Conklin, S. L.	35	35																
Chester	Roe, John W.	45	45																
Blooming Grove	Tuthill, T. B	1	1					1						1	1				
Blooming Grove	Howell, N. S.	29	28	1															
Blooming Grove	Howell, A. M	24	23	1															
Warwick	Quackenbush, S	30	30			10													
Warwick	Cline, C. R	50	46			3		1						1	1				
Warwick	Wisner, W. H.	41	27	1		13													
Warwick	Durland, Jesse	26	26																
Warwick	Dunning, W. F.	41	40	1															
Warwick	Benedict, N. S.	25	24	1				1						1	1				
Warwick	Campbell, F. H.	7	5			2													
Warwick	Buckbee, Wm.	29	25	2	2														
Warwick	Benedict, John	35	34	1															
Warwick	Post, Peter S.	19	18			1													
Warwick	Durland, Jesse	30	30																
Warwick	Bates, Joe	9	9																
Warwick	Clarke, Mrs. E. & May	77	55	2		20													
Warwick	Durland, Jesse	36	35	1															
Warwick	Pierson, Sanford	73	36	6		31													
Warwick	Wiling, Thomas	71	37	2		32													
Warwick	S. A. Houston	34	26			8													
Warwick	Paddock, Frank	7	7																
Warwick	Holbert, A. S.	39	34	1		4		1						1	1				
Blooming Grove	Strong, Frank	51	36	2		13		1						1	1				
Washing'nville.	Brooks, W. R.	57	43	1		12	1												
Washing'nville.	Hallock, Wm.	27	26	1				1						1	1				
Washing'nville.	Phillips, A	47	40	1		6													
Warwick	Coleman, G.	24	24																
Warwick	Sandford, P.	71	70	1															
Warwick	Demerest, S. J.	40	26	2		12													
Warwick	Conlon, Mrs.	3	3																
Warwick	McWorter, W. H.	15	15																
Chester	Wear, Henry	5	5																
Chester	Turflie, F. A.	33	27	1		3	2												
Chester	French, Robert	26	14	1		11													
Chester	Knapp, A.	21	18			3													
Monroe	Knight, Chas.	40	32	1		7													

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Gilbert	Aug. 30, 1893	.....
.....	....	Gilbert	Aug. 30, 1893	.....
Not tuberculous	1	Gilbert	Aug. 30, 1893	.....
.....	....	Gilbert	Aug. 30, 1893	.....
.....	....	Gilbert	Aug. 30, 1893	.....
Tuberculous	1	Gilbert	Sept. 5, 1893	.....
.....	....	Gilbert	Sept. 5, 1893	.....
.....	..	Gilbert	Sept. 5, 1893	.....
.....	....	Gilbert	Sept. 5, 1893	.....
Tuberculous	1	Gilbert	Sept. 5, 1893	.....
Not tuberculous	1	Gilbert	Sept. 5, 1893	.....
Not tuberculous	1	Gilbert	Sept. 5, 1893	.....
.....	....	Gilbert	Sept. 5, 1893	.....
Tuberculous	1	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
Not tuberculous	1	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
.....	....	Gilbert	Sept. 12, 1893	.....
Tuberculous	3	Gilbert	Sept. 18, 1893	.....
Tuberculous	1	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
Tuberculous	1	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....

ORANGE COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Monroe	Clark & Anderson	35	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washingt'nville	Breithaupt, M	58	52	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Campbell, E	16	15	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Tuthill, W. M	14	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Tuthill, Malcolm	22	21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blooming Grove	Hollock, Wm. H	86	85	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Burnet, J. B	10	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Tierey, Edward	25	22	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Nixon, C. M	22	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Binley, M. S	31	30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Windsor	Bull, A. C	39	39	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
New Windsor	Moran, M	46	42	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Cressy, J. H	25	24	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Bertholf, Edmund	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Benedict, Josh	18	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Green, H. S	21	21	...	...	...	...	2	...	...	...	...	...	2	2	...	...	...	...
Warwick	Duffie, Malcolm	19	16	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Quackenbush, J. M	28	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Sloat, Joseph	25	17	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Vance, A	27	21	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Peters, C. E	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick	Hart, Aaron	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals		2560	10857	209	53	1125	226	129	4	10	2	23	1	89	127	2	...	...	...

OTSEGO

Milford	Scott, Egbert L	39	26	1	...	2	10	30	1	15	..	..	..	*14	30	..	..	..	..
Schenevus	Becker, Isaac	1	1	...	...	..	..	1	..	...	..	..	..	1	1	..	..	..	..
Milford	Brooks, Geo. W.	4	4	...	...	..	..	..	..	...	..	..	..	...	..	..	..	..	..
Schenevus	Clark, Jarvis	1	1	...	...	..	..	..	..	...	..	..	..	...	..	..	..	..	..
Oneonta	Van Wort, Door	7	6	1	...	..	..	..	..	...	..	..	..	...	..	..	..	..	..
C'perstown Jct.	Burnside, Nelson	12	10	1	...	..	..	..	..	...	..	..	..	..	..	..	..	..	..
Schenevus	Sperry, Miles	1	1	...	...	..	..	1	..	1	..	..	..	..	1	..	..	..	..
Oneonta	Youngman, John	60	59	1	...	..	..	..	..	...	..	..	..	..	..	..	..	..	..
Oneonta	Sessions, Frank	24	24	...	...	..	..	..	..	...	..	..	..	...	..	..	..	..	..
Oneonta	Swart, B. E	17	17	...	...	..	..	..	..	...	..	..	..	..	..	..	..	..	..
Oneonta	Williams, M. B	27	22	1	...	2	2	..	..	...	..	..	..	..	..	..	..	..	..
Oneonta	Baker, Charles	24	23	1	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oneonta	Orr, David	25	18	1	...	..	6	..	..	...	..	..	..	..	..	..	..	..	..
Oneonta	Parish, George	41	40	1	...	..	..	..	..	...	..	..	..	..	..	..	..	..	..
Oneonta	Reynolds Bros., J. C.	26	18	1	...	3	4	..	..	...	..	..	..	..	..	..	..	..	..

* This includes six Durhams.

(Continued).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	...	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
Tuberculous	1	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
Tuberculous	2	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	....	Gilbert	Sept. 18, 1893	.....
.....	178			

COUNTY.

Tuberculous 80..	33	Curtice	Aug. 16, 1893	.....
.....	....	Curtice	Aug. 13, 1893	.....
.....	....	Curtice	Aug. 15, 1893	.....
.....	....	Curtice	Aug. 13, 1893	.....
.....	....	Curtice	Aug. 18, 1893	.....
.....	....	Curtice	Aug. 18, 1893	.....
.....	1	Curtice	Aug. 13, 14, 1893	.....
.....	....	Curtice	Aug. 18, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 20, 1893	.....
.....	....	Curtice	Aug. 21, 1893	.....

and one Devon.

7

OTSEGO COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Oneonta	Leonard & Swart...	86	35	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Wickham, D	24	23	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Spraker	25	24	1	...	...	...	...	...	*	...	...	...	...	...	...	...	...	...
Oneonta	Sage, Harry E	20	15	1	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Gaeger, Delos	30	29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Otego	Colt, Fred	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wellsbridge	Burnside, Louisa	21	20	1	...	...	...	0	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Clark, J. H	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Milford	Brooks, Geo. W	6	4	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Milford	Squires, Solomon	22	15	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Milford	Robert, Mrs. Fred	18	11	...	...	2	...	4	...	...	...	...	...	*4	4	...	...	...	...
Oneonta	Ransom, Gifford	20	19	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Gifford, Orwin	17	16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
W. Laurens	Wing, Asa, Est. of	31	20	2	...	4	5	5	...	...	...	...	5	...	5	...	...	...	...
Milford	Southworth Bros	13	11	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Milford	Hawver, C. B	22	13	1	...	5	3	12	...	2	...	1	...	9	11	1	...	...	...
Oneonta	Yarger, Delos	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oneonta	Gifford, Mrs. O	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laurens	Wing, Asa, Est. of	17	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Milford	Hawver, C. B	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Schenevus	McCabe, Owen	8	5	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Cherry Valley	Cox & Sutliff	41	29	5	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...
Otego	Birdsall, E. G	28	20	1	...	7	...	21	...	...	...	...	...	21	21	...	...	...	...
Cherry Valley	Cox & Sutliff	...	...	...	...	...	...	3	...	3	...	...	...	...	...	...	...	3	...
Totals		725	616	27	...	38	44	45	...	5	...	1	5	34	41	1	...	3	...

QUEENS

Glendale	Meybosel. Joseph	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glendale	Blancke, T	28	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Long Island City	Donnelly, James	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Long Island City	Madresea, John	12	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Evergreen	Vanhise, Geo. A	33	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Evergreen	Mench, John	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glensdale	Pfaff, M	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Long Island City: Forest avenue	Heeg, T	30	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodroof ave	Meyerbose, Joseph	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ridgewood	Wessermans, E. T	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Uniontown	Schmidt, Louis	18	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Forest avenue	Gebhert, Joseph	17	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ridgewood	Doht, Henry	71	71	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ridgewood	Trader, James	35	34	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

*3 Devons.

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Aug. 21, 1893	.....
.....	....	Curtice	Aug. 21, 1893	.. ..
.....	....	Curtice	Aug. 21, 1893	.....
.....	....	Curtice	Aug. 21, 1893	.....
.....	....	Curtice	Aug. 21, 1893	.....
.....	....	Curtice	Oct. 3, 1893	.....
.....	....	Curtice	Oct. 3, 1893	One had chronic bronchitis.
.....	....	Curtice	Nov. 1, 1893	.....
.....	....	Curtice	Nov. 2, 1893	Re-examination.
.....	....	Curtice	Nov. 3, 4, 1893	....
Tuberculous 4.....	13	Curtice	Dec. 6-13, 1893	Re-examination.
.....	....	Curtice	Nov. 21, 1893	.....
.....	....	Curtice	Nov. 22, 1893	.....
Tuberculous	17	Curtice	Nov. 23, 24, 1893	.....
.....	....	Curtice	Nov. 25, 1893	.....
Tuberculous	16	Curtice	Nov. 26, 1893	.....
.....	....	Curtice	Dec. 1, 1893	Chronic bronchitis.
.....	....	Curtice	Dec. 1, 1893	.....
.....	....	Curtice	Dec. 6-13, 1893	Re-examination.
.....	...	Curtice	Dec. 6, 1893	.....
.....	....	Curtice	.....	.....
.....	†20	Mackey..	.....	.....
Tuberculous, 21.	28	Curtice	May 26-June 1. '93	.....
Tuberculous	3	Mackey.....	March 22, 1894	.....
.....	97			

COUNTY.

.....	....	McLean.....	March, 1893	.....
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†Post-mortems missing.

QUEENS COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED. Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Long Is. City-(*Ctd*) Jackson ave....	Welbig, John	11	11	...	...	...	...	3	...	...	...	...	...	3	3	...	...	...	...
Hill street	Ryan, Mrs. T.H....	42	42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shore Road	Becker, Peter	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shell Road.	McCullogh, J.....	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Middlebury.....	O'Keefe, Edward ...	78	78	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blissville.....	White, Mrs.....	76	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Long Island City: Van Dam st.....	Wood, E. M.....	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Middlebury.....	Brogan, Richard....	26	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
131 Ridge st.....	Murphy, John.....	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
77 G. P. ave.....	White, Mrs.....	77	77	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
131 Academy st.	Blair, John.....	23	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gale street.....	Meyer, Lewis	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Review avenue.	Sonn, A. H....	467	467	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
389 Van Pell st..	Chadrey, D. J.....	18	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
233 Newton st...	Speyer, Mike.....	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
230 Eighth ave..	Kellmann, H.....	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104 Frankford st	Schreyer, M.....	36	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
578 Jackson st..	McIntyre, Patrick...	72	72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shore Road.....	Shubel, J	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
64 Marion st.....	Brady, Frank	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laurel Hill	Beatty, Jos	22	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43 Hamilton st..	Rigney, Owen.....	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canarsie	Redfern	26	25	1	...	...	...	0	...	...	...	...	...	...	...	...	...	...	...
Canarsie	McGee, Mrs.....	20	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canarsie	Buell, Oscar.....	24	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
East Williston....	Peters, E. G.....	7	5	2	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Totals.....	.....	1434	1431	3	...	...	...	4	...	1	...	...	...	3	4	...	...	...	...

RENSSELAER

Berlin.....	Tappen, Shep	72	34	2	...	20	16	33	...	33	...	...	...	...	33	...	...	...	...
Berlin.....	Tappen, Shep	23	7	2	...	14	...	7	...	7	...	...	...	...	2	1	...	4	...
Berlin.....	Green, J. L.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brunswick	Tappen, W. H.....	21	19	1	...	...	1	20	...	20	...	...	...	...	19	1	...	...	...
Berlin.....	Hull, A. P.....	21	13	...	...	3	5	...	...	...	...	...	...	...	...	...	...	...	...
Berlin.....	Moore, R.....	1	1	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Valley Falls.....	Hoyt, A. S.....	14	13	...	...	...	1	3	...	3	...	...	...	...	3	...	...	...	...
North Greenbush (Troy P. O.)....	Dickson, M. T.....	26	18	2	...	2	4	...	...	...	...	...	...	...	...	...	...	...	...
Lansingburgh	Powers, A. E	1	....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	.....	180	106	8	...	39	27	64	...	64	...	...	...	...	58	2	...	4	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	.....	.....	.....
.....	....	.....	.....	.....
.....	....	McLean..... ...	March-April, 1893	.....
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.....	....	McLean.....	March-April, 1893	.. ..
.....	....	McLean.....	March-April, 1893	.....
.....	....	McLean.....	March-April, 1893	.....
.....	....	McLean.....	March-April, 1893	.....
.....	....	McLean.....	March-April, 1893	.....
... ...	....	Gilbert	June 3, 1893	Swill stable.
.....	....	Gilbert	June 3, 1893	.....
.....	....	Gilbert	June 3, 1893	.....
.....	1	Gilbert	June 3, 1893	.....
.....	1			

COUNTY.

Tuberculous	33	Mackey	Nov. 19-24, 1893	.....
Tuberculous	7	Mackey	Dec. 8-9, Jan. 6, 1894	Same herd as above.
.....	....	Mackey	Dec. 10, 1893	.....
Tuberculous	20	Mackey	Dec. 6-8, 1893	.....
.....	....	Mackey	Jan. 6, 1894	Bought of Shepherd Tappen.
Tuberculous	1	Mackey	Jan. 5-6, 1894	.....
Tuberculous	3	Mackey	Jan. 9-10, 1894	.....
.....	....	Mackey	Jan. 16-17, 1894	Not slaughtered.
.....	....	.....	Jan. 16-17, 1894	Not diseased; doubtful.
... .	64			

SARATOGA

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED. Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Gansevoort	Shurter Bros.	14	9	1	...	2	2	3	...	3	...	...	...	...	2	1	...	...	...
Wilton	King, E. H.	19	10	...	1	6	2	14	...	12	1	...	...	...	10	...	1	1	2
Moreau	Richards & Lendoll.	18	12	1	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...
Moreau	Fayette, Selleck	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Moreau	Nesbett, H.	13	7	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...
Moreau	Sheldon, B.	31	27	...	1	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Wayville	Myers, H. J.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilton	Schemerhorn, R. P.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilton	Bush, Frank	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Manrey, Sarah	15	8	1	1	2	3	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Carey, Arthur	16	12	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...
Wilton	Fuller, W. J.	11	8	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Cross, A. K.	14	10	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Palmer, F. W.	16	11	1	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Metcalf, Eugene	12	9	...	...	1	2	6	...	2	...	...	...	4	6	...	...	...	...
Gansevoort	Rogers & Lewis	15	11	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Childs, Elmer	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Baker, Lewis	9	5	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Voll, Dr. J.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Wilber, H	14	9	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Gansevoort	Davis, H.	10	8	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Ballston	Holmes, J. & W. C.	21	10	2	...	3	6	12	...	12	...	...	...	...	11	1	...	...	...
Charlton	Curtis, Mrs. D. C.	24	15	2	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...
Ballston	Holmes Bros	4	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Totals		301	209	15	3	32	42	35	...	30	1	...	...	4	29	2	1	1	2

SUFFOLK

Fort Salonga	Holmes, John	1	1	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Fort Salonga	Kenney, Wm.	1	1	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Fort Salonga	Brown, M.	17	17	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Northport	Hartt, Aaron	1	1	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Totals		20	20	...	...	...	...	4	...	4	...	...	...	...	4	...	...	...	...

SULLIVAN

Bridgeville	Coddington, Eli	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TIOGA

Richford	Meloy, C. T.	11	5	1	...	2	3	1	...	1	...	...	...	...	1	...	...	...	...
Jenksville	Simmons, Wm. E.	16	11	1	...	4	...	9	...	2	...	1	...	6	4	...	...	5	...
Totals		27	16	2	...	6	3	10	...	3	...	1	...	6	5	...	...	5	...

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Tuberculous	3	Mackey	Oct. 13-14, 1893	
Tuberculous	14	Mackey	Oct. 14-15, 1893	
		Mackey	Oct. 15, 1893	
		Mackey	Oct. 15, 1893	
		Mackey	Oct. 15, 1893	
		Mackey	Oct. 15, 1893	
		Mackey	Oct. 31, 1893	
		Mackey	Nov. 8, 1893	
		Mackey	Nov. 8, 1893	
		Mackey	Nov. 8, 1893	
		Mackey	Nov. 8, 1893	
		Mackey	Nov. 8, 1893	
		Mackey		
		Mackey		
Tuberculous	6	Mackey	Nov. 13-14, 1893	
		Mackey	Nov. 15-16, 1893	
		Mackey	Nov. 15-16, 1893	
		Mackey	Nov. 15-16, 1893	
		Mackey	Nov. 15-16, 1893	
		Mackey	Nov. 16-17, 1893	
		Mackey	Nov. 16-17, 1893	
Tuberculous	12	Mackey	Nov. 16-17, 1893	
		Mackey	Jan. 12-20-21, 1894	
		Mackey	Jan. 11-12, 1894	Same herd as above.
	35			

COUNTY.

Tuberculous	1	Faust	Dec. 6-7, 1893	
Tuberculous	1	Faust	Dec. 6-7, 1893	
Tuberculous	1	Faust	Dec. 6-7, 1893	
Tuberculous	1	Gilbert	Oct. 2, 1892	
	4			

COUNTY.

		Faust	Dec. 4-5, 1893	

COUNTY.

Tuberculous	1	Curtice	Dec. 19, 1893	
Tuberculous	9	Curtice	Dec. 20-5, 1893	
	10			

TOMPKINS

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Groton	Gooding, S. C	23	18	1	...	...	4	7	...	7	...	...	...	...	6	1	...	...	...
Groton	Backus, M. B	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Pike, Wm. E	6	3	...	...	2	1	1	...	1	...	...	...	...	1	...	...	...	...
Groton	Chapman, Alb	14	12	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Burnham, W. H	9	5	1	...	...	3	2	...	2	...	...	...	...	2	...	...	...	...
Groton	Sears, W. B	12	12	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
McLean	Hart, E. P	18	12	1	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Rhodes, Dana	10	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Underwood, Wm	22	19	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Walpole, Jno	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Groton	Youmans, E. G	16	12	1	...	...	3	5	...	5	...	...	...	...	4	1	...	...	...
Etna	Snyder, Bradford	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Freeville	Corcoran, Wm	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Freeville	Mincah, J. H	11	5	1	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Totals		170	136	8	...	6	20	16	...	16	...	...	...	...	14	2	...	...	...

WARREN

Glens Falls	Flynn, Thomas	4	2	..	..	..	2	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Mead, James	8	8	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Moynegan	25	20	..	..	4	1	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Stevens, Edward	27	24	1	2	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Sweet, Daniel	9	9	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Malan, P	12	12	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Storey, A	3	3	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	O'Reilly & Coffin	15	9	1	..	3	2	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Palmer & Coolidge	19	13	2	..	..	4	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Rogers, W. G	28	20	1	..	..	7	7	...	7	...	...	...	...	6	1	...	...	...
Glens Falls	Wing, Samuel	16	12	1	..	2	1	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Streeter, Dr. B. G	6	6	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Thompson, Dr	1	1	...	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Green, Chas H	6	6	..	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Haviland, H. J	19	11	1	..	5	2	2	...	2	...	...	...	...	2	...	...	...	...
Glens Falls	Haviland, P. T	25	24	1	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Luzerne	Gerard, Mr	3	2	1	..	..	..	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Haviland, A. S	29	26	..	..	..	3	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Haviland, Dan S.	23	16	1	..	4	2	...	...	...	...	...	...	...	..	...	...	...	...
Glens Falls	Thomas, Steven	58	48	1	..	..	9	...	...	...	...	...	...	...	..	...	...	...	...
Luzerne	Potter, Warren	1	..	..	..	1	..	...	...	...	...	...	...	...	..	...	...	...	...
Luzerne	Mead, Jas	3	2	..	..	1	..	...	...	...	...	...	...	...	..	...	...	...	...
Luzerne	Richard, Michael	3	..	..	..	3	..	...	...	...	...	...	...	...	..	...	...	...	...

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Tuberculous	7	Law	Jan. 27-8, 1893	
		Law	Feb. 3, 1893	
Tuberculous	1	Law	Feb. 3, 1893	
		Law	Feb. 3, 1893	
Tuberculous	2	Law	Feb. 4, 1893	
Tuberculous	1	Law	Feb. 4, 1893	
Diseased udder; alleged to have been "hooked"	1	Law	Feb. 10-17, 1893	
		Law	Feb. 10, 1893	
		Law	Feb. 10, 1893	
		Law	Feb. 17, 1893	
Tuberculous	5	Law	Feb. 17, 1893	
		Curtice	Sept. 16, 1893	
		Curtice	Sept. 16, 1893	
		Curtice	Sept. 16, 1893	
	17			

COUNTY.

		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
		Mackey	Sept. 1893	
		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
		Mackey	Sept., 1893	
Tuberculous	7	Mackey	Sept. 3, 6, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
Tuberculous	2	Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 9, 1893	
		Mackey	Sept. 13, 1893	
		Mackey	Sept. 14, 1893	
		Mackey	Sept. 14, 1893	
		Mackey	Sept. 14, 1893	

WARREN COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.						Cows.	Bulls.	Steers.	Heifers.	Calves.
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.					
Luzerne	Riley, Warren	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Luzerne	Brown, Oscar	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Queensbury	Odel, Benj	12	10	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Queensbury	O'Leary, Patrick	8	5	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Haviland, Jos	21	16	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Dix, Walter	29	23	1	...	...	5	1	...	...	...	...	...	1	1	...	...	...	...
Glens Falls	Haviland, Willis J	43	25	2	...	13	3	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Haviland, John G	41	30	1	...	7	3	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Hall, Jas	16	11	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Baker, E. J	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Rotter, W. J	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Wiltse, John S	15	10	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Masson, Chas E	11	9	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Fleming, Leroy	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Newman, Chas. P	17	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Newman, Geo. R	17	13	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Staples, John	25	23	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Witherald, B	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Wing, H. B	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Kneebury, Michael	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Pitkins, G. B	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Donohue, J. J	8	5	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Andrews, Silas	13	9	1	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Beerd, A. F	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Olsen, John	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Haviland, S	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Rockw'll, Mrs. W. W	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Hulihy, T	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glens Falls	Rodgers, W. G	12	12	...	...	...	...	8	...	8	...	...	...	...	8	...	...	...	...
Totals		692	547	22	2	64	57	18	...	17	...	...	...	1	17	1	...	...	...

WASHINGTON

Easton	Borden, R. O	14	7	3	...	2	2	6	...	...	...	...	6	...	4	2	...	...	...
Easton		2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Sandy Hill	Madison, Andrew	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Easton	Wilber, John S	15	10	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Easton	Powers, A	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fort Ann	Brown, Leonard	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kingsbury	Sweet, George W	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals		60	44	5	...	7	4	6	...	...	...	...	6	...	4	2	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Mackey.....	Sept. 14, 1893	.....
.....	..	Mackey.....	Sept. 14, 1893	.....
.....	....	Mackey.....	Sept. 14, 1893	.....
.....	....	Mackey.....	Sept. 14, 1893	.....
.....	....	Mackey.....	Sept. 14, 1893	.....
.....	1	Mackey.....	Sept. 14, 1893	.....
.....	....	Mackey.....	Sept. 15, 1893	.....
.....	....	Mackey.....	Sept. 15, 1893	.....
.....	...	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept., 1893	.....
.....	....	Mackey.....	Sept. 28, 1893	.....
.....	....	Mackey.....	Sept. 28, 1893	.....
.....	....	Mackey.....	Oct. 2, 1893	.....
.....	....	Mackey.....	Oct. 3, 1893	.....
.....	....	Mackey.....	Oct. 3, 1893	.....
.....	....	Mackey.....	Oct. 4, 1893	.....
.....	...	Mackey.....	Oct. 4, 1893	.....
.....	....	Mackey.....	Oct. 4, 1893	.....
.....	....	Mackey.....	Oct. 4, 1893	.....
.....	....	Mackey.....	Oct. 4, 1893	.....
.....	....	Mackey.....	Oct. 4, 1893	.....
.....	....	Mackey.....	Oct. 15, 1893	.....
.....	....	Mackey.....	Oct. 15, 1893	.....
.....	....	Mackey.....	Oct. 15, 1893	.....
Tuberculous	8	Mackey.....	Nov. 1-2, 1893	.....
.....	18			

COUNTY.

Tuberculous	5	Curtice & Mackey.	Aug. 25, 1893	.....
Tuberculous	1	Curtice & Mackey.	Sept. 26, 1893	.....
.....	....	Gilbert	Sept. 26, 1893	.....
.....	....	Mackey.....	Sept. 26, 1893	.....
.....	....	Mackey.....	Sept. 26, 1893	.....
.....	....	Mackey.....	Sept. 26, 1893	.....
.....	....	Mackey.....	Sept. 26, 1893	.....
.....	6			

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Willow Park	Hennberger, H.	1	1																
Willow Park	Wheaton, A.	2	2																
Willow Park	Farrington, S. J.	12	10	2															
Willow Park	Lantrey, John	1	1																
Willow Park	Schwinster, W.	4	4																
Willow Park	Xavier, H.	2	2																
Willow Park	Flynn, J.	4	1			3													
Willow Park	Norman, H.	6	1		4	1													
Willow Park	Wittenberg, T.	2	2																
Willow Park	McBride, Mrs.	2	2																
Willow Park	Reynard, M.	1	1																
Willow Park	Chambers, F. R.	3	2			1													
Willow Park	Martz, A.	1	1																
Mt. Vernon	Sagemann	2	2																
Mt. Vernon	Sykes, M. L.	3	2				1												
Mt. Vernon	Farrington & Craft.	2	2																
Mt. Vernon	Holler, J. T.	1	1																
Mt. Vernon	Offinger, M.	2	2																
Mt. Vernon	Wartburg Orp'n As.	29																	
Mt. Vernon	Furber, A.	2																	
Mt. Vernon	Wright, Frank	2	2																
Mt. Vernon	Lyon, J. B.	1	1																
Mt. Vernon	Smith, C. M.	4	3			1													
Mt. Vernon	Glover, R. V.	4	4																
Mt. Vernon	Tierney, M.	2																	
Chester Hill	Cowan	1	1																
	Hewett, R.	1																	
	Schwab, F.	2	1			1													
	Mills, Judge J. W.	4	4																
	Kaemerer	2	1				1												
	Burke, J.	6	6																
Chester Hill	Seaxer, A. M	2	1			1													
Bronxville	Laurence, W. V.	3	1		2														
Bronxville	Feldhenson, J.	1	1																
Bronxville	Grey, R. W.	2	2																
Bronxville	Craft, Mrs.	1	1																
Bronxville	Masterton, A.	2	2																
Bronxville	Rockwell, A. P.	3	2				1												
Bronxville	Ridgway, E. S.	3	1			1	1												
Bronxville	Hyatt	5																	
Bronxville	Dusenberry, M. N.	1	1																

COUNTY.

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice	Sept., 1892	
		Curtice		
		Curtice		
		Curtice		
		Curtice		
		Curtice		
		Curtice	Sept. 9, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
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		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 10, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept., 12, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept. 12, 1892	
		Curtice	Sept. 12, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Bronxville	Granger, Dr.	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronxville	Raines, J. J.	2	1	...	...	1	0	...	...	...	...	...	...	...	...	...	...	...	...
Bronxville	Eibell, F.	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Bronxville	Thorn, G	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Bronxville	Cronk, W. H.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronxville	Carmody, Dr.	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Gifford, S. D.	5	3	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Chester Hill	Conley	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester Hill	Kehoe, A.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Connolly, W	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Busteed, G. J.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Lapp, August	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Archer, Wm. H.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Wayland, Ed.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Jans, J	17	13	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Van Duser, F.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Cramer, M.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Kloepfer, J.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Coutant, M. J	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Corners	Donohue, D.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Weeks, G. W.	3	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Cunningham, Mrs	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Bell, Miss E. S. L.	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	McNulty, Mrs. H.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Martin, James	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
California Rd.	Scanlon, T.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Lany, Mrs. M.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Tierce, Mrs. G.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Leary, David	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Dunn, James	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waverly	Brush, D. E. F.	65	62	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Dusenbury, C., Jr.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Hodgman, C. A.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Matthews	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Brown, Amos.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Andersen, A.	3	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Young, J. H.	4	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Finnessy, T.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Shea, John	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	O'Toole, Luke	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Tracy, H. G.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Sept. 12, 1892	.....
.....	....	Curtice	Sept. 12, 1892	.....
.....	....	Curtice	Sept. 12, 1892	.....
.....	....	Curtice	Sept. 12, 1892	.....
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.....	....	Curtice	Sept. 12, 1892	.....
.....	....	Curtice	Sept. 12, 1892	.....
....	....	Curtice	Sept. 12, 1892	.....
.....	....	Curtice	Sept. 15, 1892	.....
....	....	Curtice	Sept. 15, 1892	.....
.....	....	Curtice	Sept. 15, 1892	.....
.....	....	Curtice	Sept. 15, 1892	.....
....	....	Curtice	Sept. 15, 1892	.....
.....	...	Curtice	Sept. 15, 1892	.....
.....	....	Curtice	Sept. 15, 1892	.....
.....	....	Curtice	Sept. 15, 1892	....
.. ..	....	Curtice	Sept. 16, 1892	....
....	....	Curtice	Sept. 16, 1892	....
.....	....	Curtice	Sept. 16, 1892	.....
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.....	....	Curtice	Sept. 16, 1892	....
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....	....	Curtice	Sept. 16, 1892	....
....	....	Curtice	Sept. 16, 1892	.....
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....	....	Curtice	Sept. 16, 1892	.....
.....	....	Curtice	Sept. 16, 1892	.....
.....	....	Curtice	Sept. 16, 1892	.....
.....	....	Curtice	Sept. 16, 1892	.....

WESTCHESTER COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.
Tuckahoe	Telensky, J. B	1	1															
Tuckahoe	Davidson, J. W	1	1															
Tuckahoe	Travis, T	4	3	1														
Tuckahoe	Fisher, J	2	2															
Tuckahoe	Parsons, W	1	1															
Tuckahoe	Matthews, J. S	21																
Waverly	Tierce, Mrs. G	1	1															
Waverly	Horn, J	7	7															
White Plains Rd	Reynolds, A. L	1	1															
White Plains Rd	Reynold, E. U	5	3			2												
White Plains Rd	Reynold, T. F	35																
White Plains Rd	Schweitzer, B	1	1															
White Plains Rd	Ferris, G. D	1	1															
White Plains Rd	Traverse, T	1	1															
East Chester	Ackerman, C	2	2															
East Chester	Klaack, Chas	1	1															
East Chester	Ackerman, G. W	1	1															
East Chester	Schwarz, C	1	1															
East Chester	Slater, M	1	1															
East Chester	Barton, S. P	1	1															
East Chester	Potter, E. C	2	2															
East Chester	McCarthy, C. J	2	1															
Scarsdale	Weed, David	3	3															
Scarsdale	Dobbs, G. W	7	6	1														
Scarsdale	Ryer, P. J	1	1															
Hartsdale	Van Wyck, Fred	2	2															
Scarsdale	Butler, Chas	11	9	1			1											
Scarsdale	Torrence, L	4	4															
Scarsdale	Towner, B	1	1															
Scarsdale	Bedell, A	1	1															
Scarsdale	Burgess, G	5	3			1	1											
Scarsdale	Popham, L. C	1	1															
Scarsdale	De Laney, C	1	1															
Scarsdale	Pophan, N	1	1															
Scarsdale	Bates, H. W	1	1															
Scarsdale	Hyatt, O. N	2	2															
Scarsdale	Drake, M	1	1															
Scarsdale	Clift, Dr	1	1															
White Plains	Mulligan, P	2	2															
White Plains	Conet, G. F	1	1															
White Plains	Anderson, F	4	4															

(*Continued*).

Post-mortem lesions.	Steers.	Inspector.	Date of examination.	Remarks.
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
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		Curtice	Sept. 16, 1892	
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		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 16, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
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		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	

WESTCHESTER COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.						Cows.	Bulls.	Steers.	Heifers.	Calves.
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.					
White Plains	Hammond, C.	1	1																
White Plains	Quinby, C. J	1	1																
White Plains	Brady, J	4	4																
Scarsdale	Duckle, Chas. W.	5	5																
Scarsdale	McCabe, J. D.	4	2		2														
Scarsdale	Fisher, C. B.	2	2																
Scarsdale	Carpenter, J. H	4	4																
Scarsdale	Hitchcock, G. W.	5	5																
Scarsdale	Carpenter, R. E	1	1																
Scarsdale	Crenzboar, R.	2	1				1												
White Plains	Reynal, Mrs. J	14	10	1	2	1													
Scarsdale	Secor, C. T	7	4				3												
Scarsdale	Dahlmen, J. H	4	3	1															
Scarsdale	Mercer, W.	6	1				5												
Scarsdale	Willett, G. J.	28	24	1		3													
Scarsdale	Willett, G. K.	2	2																
Scarsdale	McGibney, Geo	14	14																
Scarsdale	McGibney, Geo.	17	17																
New Rochelle	Atterbury, A. F.	4	3			1													
Scarsdale	Beals, Mrs. F. A.	3	2			1													
Scarsdale	Schrömme, C.	1	1																
Scarsdale	Schilling, W.	3	3																
Scarsdale	Morrell, J. C.	3	2	1															
Scarsdale	Le Furger, Isaac	4	4																
Scarsdale	Morrell, K. C	12	12																
Scarsdale	Iselin, W	29	20	1			8												
Scarsdale	Cornell, R. C	33	32	1															
Scarsdale	Cornell, R. C	2	2																
Scarsdale	Benedict, H. R	45	43	1		1													
Scarsdale	Hoogland, Dr.	2	1			1													
Scarsdale	Barum, Wm.	1	1																
Scarsdale	Stiles, W. H	19	9			3	7												
Scarsdale	Groser, Samuel	1	1																
Scarsdale	Johnson, M.	1	1																
Scarsdale	Beers, J. M	2	2																
Scarsdale	Kane, G.	2	2																
Mamaroneck	Hall, I	15	10	1	2	2													
Scarsdale	Griffen, C.	4	4																
Scarsdale	Arden, M. V	7	4			3													
Scarsdale	Beattie, Daniel	21	19			2													
Scarsdale	Schumacker, T.	5	5																

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 27, 1892	
		Curtice	Sept. 28, 1892	
		Curtice	Sept. 28, 1892	
		Curtice	Sept. 28, 1892	
		Curtice	Sept. 28, 1892	
		Curtice	Sept. 28, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	11 head outside, 2 coughing same as Adams herd.
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Sept. 29, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	
		Curtice	Oct. 1, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Scarsdale	Morrill, Mrs.	10	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarsdale	Turner, Wm.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Meyer, J. A.	6	2	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Keifer, F	5	3	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Purdy, C.	38	27	3	...	6	2	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Kevlin, S.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Warren, J.	4	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Morton, E. P.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Lawrence, Geo.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Collyer, Wm. A.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Gedney, Samuel	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Craft, D. G.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Todd, C. F.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Smith, Pat.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Carpenter, J. T.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Turner, J. L.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	White, Chas.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rosedale	Griffin, H. J.	15	9	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Seymour, J. E.	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Gibson, T.	21	17	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Purdy, S. E.	7	4	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Horton, T.	6	3	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Miller, C.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Briggs, C. A.	8	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Sammis, W. A	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Springsteed, N.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Lyon, Gibert	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Safford, George	3	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Gedney B.	35	34	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Fuhrs	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Purdy, J. H. & L. R.	4	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Purdy, Gabriel	4	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Altmann, J.	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Webber, A.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Hairland, S. A.	33	32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Haskins, Mrs. A.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Burns, W. D.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Welsh, Henry	6	4	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Platt, Ben	10	6	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Platt..	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Tem. Home Dest. Chn	10	8	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...

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ost-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	ct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 3, 1892	
	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
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	....	Curtice	Oct. 4, 1892	
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	....	Curtice	Oct. 4, 1892	
	....	Curtice	Oct. 4, 1892	
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	....	Curtice	Oct. 5, 1892	
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	....	Curtice	Oct. 5, 1892	
	....	Curtice	Oct. 5, 1892	
	....	Curtice	Oct. 5, 1892	
	....	Curtice	Oct. 5, 1892	
	....	Curtice	Oct. 5, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
White Plains	Ward, S. L. H.	3	3																
White Plains	Murphy, J.	1	1																
White Plains	Donohue, J.	1	1																
White Plains	Keelan, Mrs. A.	1	1																
White Plains	Horton, Wm. H.	5	5																
White Plains	Horton, David	12	12																
White Plains	Brodie, J.	4	3			1													
White Plains	Somers, S. V.	2	1			1													
White Plains	Miller, Elijah	9	9																
White Plains	Underhill, M. H.	2	2																
White Plains	Gedney, A.	8	8																
White Plains	Buttgereit, C.	3	3																
White Plains	Horton, A. J.	3	3																
White Plains	Cornell, Mrs. R. E.	2	2																
White Plains	Bateman, A. D	7	7																
White Plains	Faile, S.	4	3				1												
White Plains	Waller, J. T.	2	2																
White Plains	Carpenter, Thos	1	1																
White Plains	Silliman, M.	1	1																
White Plains	Cromwell, D	1	1																
White Plains	B'dale asylum	58	58																
White Plains	Onderdonck, E. C.	7	7																
White Plains	Mitchell, Mrs. O H.	2	2																
White Plains	Haws, C.	2	2																
White Plains	Sommerfeld, W.	1	1																
White Plains	Selwyn	1				1													
White Plains	Holden, T.	1	1																
White Plains	Howard, O	1	1																
White Plains	Smith, Carolin	1	1																
White Plains	Lauritzen, A.	2	2																
White Plains	McCarthy	1	1																
White Plains	Smith, Dan'l	3	3																
White Plains	Sheriff, Duffy	1	1																
White Plains	Magness, Dr.	2	2																
White Plains	Blakley, Jno.	1	1																
White Plains	Lockwood, J. T.	1	1																
White Plains	Schmidt, Dr.	1	1																
White Plains	McCarthy, P	2	1			1													
White Plains	Smith, Mr. Miles	1	1																
White Plains	Morrow, T.	4	4																
White Plains	Miller, G.	4	4																

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
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		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	
		Curtice	Oct. 5, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
White Plains	Sisters Div. Comp.	3	2				1												
White Plains	Hand, N. H.	1	1																
White Plains	Slauson, S. R.	1	1																
White Plains	Strang, C E.	1	1																
White Plains	Sniffen, E. C.	2	2																
White Plains	Weismuller, J.	1	1																
White Plains	Thompkin, Mrs. H.	1	1																
White Plains	Miller, Mr.	3	3																
White Plains	Jarvis, A. S.	4	4																
White Plains	Albro, W. H.	2	2																
White Plains	Fowler, S.	2	2																
White Plains	Tebbitt, W. B.	2	2																
White Plains	Shampnion, W.	4	3				1												
White Plains	Hintz, Mrs.	1	1																
White Plains	Ossauw, Wm.	1	1																
White Plains	Frieze, Wm	2	2																
White Plains	Ogden, Ed.	1					1												
White Plains	Baldwin, H. H.	6	1	2			3												
White Plains	Helle, G.	1	1																
White Plains	Stack, R.	3	3																
White Plains	Mulaney, D.	1	1																
White Plains	Brown, Mrs. R.	2	2																
White Plains	Squire, A.	2	2																
White Plains	Klinger, Wm.	3	3																
White Plains	McNally, J.	1	1																
White Plains	Hedrick, S.	2	1			1													
White Plains	Murphy, I	1	1																
White Plains	Roberts, Mrs. M.	2				1	1												
White Plains	Atwater, Mrs	1	1																
White Plains	Pero	1	1																
White Plains	Ladensack, R.	1	1																
White Plains	Reilly, Thomas	1	1																
White Plains		1	1																
White Plains	Fisher	8	8																
White Plains	Schmidt, A.	2	2																
White Plains	Farrall, Mrs.	6	6																
White Plains	Whitney, Mrs. C.	1	1																
White Plains	Lester, Mrs. S. E	3	3																
White Plains	Cunningham, L.	1	1																
White Plains	Smith, Mrs. C.	1	1																
White Plains	McLoughlin, W	3	2			1													

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Oct. 5, 1892	.....
.....	...	Curtice	Oct. 5, 1892	....
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.....	....	Curtice	Oct. 5, 1893	.....
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.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	....

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
White Plains	Keefe, Mrs. M	1	1																
White Plains	Mahony	1	1																
White Plains	Fay, T	1	1																
White Plains	Lynch, J	1	1																
White Plains	McGraw	1	1																
White Plains	Conors, J	1	1																
White Plains	Union Hotel	1	1																
White Plains	Smith, Daniel	2	2																
White Plains		1	1																
Rye	Schmaling, C. H	18	18																
Rye	Burdsall, Mrs. H. G.	7	5	2															
Harrison	Haviland, J. S	22	20		2														
Harrison	Arnold, Hicks	4	2			1	1												
Harrison	Haviland, J. C	12	12																
Rye	Park, Joseph	21	7	4	10														
Rye	Carpenter, H	5	4	1															
Harrison	Bushnell, C	3			2	1													
Harrison	Lausch, Geo	16	14	1		1		3	2					1	3				
Harrison	Park, Chas	10	4		6			2						2	2				
Harrison	Hall, N	16	11	1	4														
White Plains	Lentermann, C	1	1																
White Plains	Knox, P	35	23	1		6	5												
White Plains	Gandrup, B	2	2																
White Plains	Deck, Timothy	5	5																
White Plains	Brown, T	1	1																
White Plains	Reed	2	2																
Harrison	Ganisburg	1	1																
Harrison	Gray, Daniel W	6	6																
Harrison	Hyatt, J. H	7	3		4														
Harrison	Park, S	3	3																
Harrison	Murphy, D	3	3																
Harrison	Fritz	1	1																
Harrison	Miscellaneous	6	6																
Harrison	Storrs, F	100	100																
Harrison	Coffield	3	3																
Harrison	Hitchcock, W. G	62	60				2												
Harrison	Reid, Whitelaw	66	58				8				1				0				
Harrison	Layne, Mrs. Ed	13	13																
Harrison	Telford, Capt. C. E.	33	13	2	12	6													
Harrison	Haviland, C. C	26	25	1															
Purchase	Comstock, H. K	1	1																

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
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.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
Tuberculous	3	Curtice	Oct. 5, 1892	.....
.....	2	Curtice	Oct. 5, 1892	January 25, 1893.
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
Chronic bronchitis.....	1	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 5, 1892	.....
.....	...	Curtice	Oct. 5, 1892	.....
.....	....	Curtice	Oct. 20, 1892	.....
.....	....	Curtice	Oct. 20, 1892	.....

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Purchase	Benedict, Mrs. S. A.	4	4																
Purchase	Peppard, Isaac	2	2																
Purchase	Peppard, William	1	1																
Purchase	Bchwäling, N.	1	1																
Purchase	Sutton, Albert	5	5																
Purchase	Fish, Wm. M.	6	6																
Purchase	Collins, R. S.	12	10		2														
Purchase	Brosling, J. C.	14	13	1															
Purchase	Willitts, Samuel	16	13				3												
Purchase	Brosling, G. T.	7	6	1															
Harrison	Barnes, Robert	27	26	1															
Harrison	Clinchy, Wm. H.	8	7	1															
Harrison	Miscellaneous	4	4																
Harrison	Andrews, A. F.	3	3																
Harrison	Maloney, John	16	10	1			5												
Rye	Lawson, W. T.	4	4																
Harrison	Martin, T.	14	14																
Harrison	Morse, George	3	3																
Harrison	Muhlin, E.	6	6																
Purchase	Laverty, A.	26	26				2							2	2				
Purchase	Field, W. M.	6	5	1															
Rye	Acker, W.	6	5	1															
Rye	Schmäling, F. P.	24	24																
Rye	Coupe, J.	3	3																
Harrison	Harper, Ed.	12	11			1													
Rye	McClenahan, J.	6	6																
Rye	Pine, E. M.	6	4		2														
Rye	Merritt, D. E.	9	6	1	2														
Rye	Haviland, Ed.	7	5			2													
Rye	Haviland, Samuel	2	1			1													
Harrison	Archer, Mrs. B.	8	8																
Harrison	Haviland, W. A.	3	3																
Harrison	Drake, J. J.	4	1			3													
Harrison	St. Vincent's Asyl'm	8	8																
Harrison	Abbott, Frank	5	4	1				1							1	1			
Harrison	Matthews, Wm.	7	4			3													
Harrison	Macy, J. H.	3	3																
Harrison	Mernagh, Patrick	35	35																
Harrison	Purdy, Thomas	26	26																
Harrison	Merritt, J. H.	20	20																
Yonkers	Louth, J.	62	62																

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 20, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 23, 1892	
		Curtice	Oct. 25, 1892	
		Curtice	Oct. 25, 1892	
Tuberculous	1	Curtice	Oct. 27, 1892	Died after inspection.
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.						Cows.	Bulls.	Steers.	Heifers.	Calves.
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.					
Purchase	Miscellaneous	5	5																
Rye	Smith, M. E	7	7																
Rye	Ryan, Wm	1	1																
Rye	Clark, J. H	1	1																
Rye	Schmälling, J. T	12	5	1		6													
Rye	Chandler, O. T	7	3		4														
Rye	North, S. T	5	3			2													
Rye	Shelly, Geo	4	4																
Rye	Brown, Ed. W	12	10	1			1												
Rye	Garrett Bros	2	2																
Rye	Lyon, John	16	13	1	2														
Rye	Weir, Matthew	21	21																
Port Chester	Miscellaneous	20	20																
Port Chester	Wesley, E. B	3	3																
Port Chester	Merritt, Miss H	8	8																
Port Chester	Davis, E	7	5	1		1													
Port Chester	Leish, S. R	1	1																
Port Chester	Shell, E	3	3																
Port Chester	Sackett, Clarence	6		1			5												
Rye	Buckay, Josiah	25	23	1		1													
Harrison	Park, Chas	7	4			1	2												
Harrison	Smith, H. M	4	4																
Harrison	Ryan, John	3	3																
Harrison	Berry, Michael	2	2																
Harrison	Miscellaneous	7	7																
Rye	Quin, Henry	3	3																
Rye	Gwyne, J. A	6	6																
Harrison	Greer, Chas	9	7	1		1													
Harrison	Park, Chas	4	4																
Harrison	Park, Augustus	4	4																
Harrison	Crichton, Henry	1	1																
Harrison	Miscellaneous	18	18																
Harrison	Cottman, H	2	1			1													
Rye	Parsons, Wm	5	5																
Rye	Leif, Wm	4	4																
Rye	Reid, Geo. R	4	4																
Rye	Abendooth, Wm	3	2			1													
Port Chester	Miscellaneous	28	28																
Port Chester	O'Malley, P	3	3																
Port Chester	Merritt, G. W	6	6																
Port Chester	Quintard, A	2	2																

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 27, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Oct. 30, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein	Jersey	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Port Chester	Quintard, G. W.	8	8	...	...	...	...	2	...	...	...	...	...	2	2	...	...	...	...
Port Chester	Krumell, O.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manursing Island.	Fairfax, H. R.	7	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manursing Island.	Downing, R. F.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Blank	8	5	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Kennedy, Michael	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Otis, Edward	6	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Coles	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Haight, J. M.	3	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Curtis, C. B.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Beach	Miscellaneous	14	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye	Van Wagner, G. H.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye	Yacht Club	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye	Starbuck, Wm. H.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Milton	Halsted, Wm.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blank	Blank	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye	Chapman, Mr	7	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye	Grummond	5	3	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Hitchcock, W. G.	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Tobin, Thos.	21	20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Miscall	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Iselin, Adam, Jr.	14	7	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Archer, A. D.	6	4	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Reed, Wm. T.	16	15	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Boda, John	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Gilligan, Pat.	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Archer, E. L.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Bitters, Chas.	4	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Underhill, Geo. B.	3	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Odell, P. B.	21	19	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Miscellaneous	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Furgur	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Miscellaneous	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Mead, Chas. E.	9	7	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Putnam, Wm. B.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Foshay, Wm.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Purdy, Wm.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Brundage, Ellen	10	5	...	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Brown, W. L.	5	3	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Burnham, S. J.	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Park, Joseph	7	5	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
Tuberculous	1	Curtice	Nov. 8, 1892	One suspected.
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov. 8, 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
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		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	
		Curtice	Nov., 1892	

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Rye Neck	Parson, Mrs. Jane	4	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Morgan, J.	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Foshay, Edward	31	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Fiske	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Miscellaneous	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Purdy, Mrs. O.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Purdy, Wm	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Blank	4	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Moran, W. A.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Dickerman, Wm.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Crouch, Stephen	15	14	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Carpenter, J	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Purdy, S. G.	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Haviland, R. P.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Miscellaneous	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	McGrath.	9	6	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Hunt, Dan	7	2	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Miscellaneous	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Holcomb, Mrs. C. C.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Towle, Stephen	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rye Neck	Miscellaneous	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mamaroneck	Miscellaneous	40	40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mamaroneck	Keller, Mrs. E.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mamaroneck	Parker, W.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Hitchcock, W. G.	59	40	2	...	14	3	4	...	...	...	...	...	4	4	...	...	...	...
Harrison	Haviland, C. C.	26	25	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Farms	Catholic Protectory	55	55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Farms	Sullivan, J. S.	20	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Farms	Robinson	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Smith, H. M.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Buckley, J.	24	23	...	...	...	...	6	...	...	2	1	...	3	6	...	...	...	...
Harrison	Parker, E. C.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	McGibney	42	42	...	...	...	...	11	...	...	6	...	...	5	10	1	...	...	...
Kensico	Bussicks, Mrs. Jos.	6	4	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Tobin	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Barr, A	51	51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Barr, A	65	64	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Tompkins, Sylvester	14	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Chester, W. L.	48	40	1	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Martine, Geo. W.	12	9	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Walhalla	Taylor, Andrew	13	12	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
Non-tuberculous	2	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov. 19, 1892	.....
.....	...	Curtice	Nov. 19, 1892	.....
....	....	Curtice	Nov. 19, 1892	.....
.....	....	Curtice	Nov. 19, 1892	.....
....	....	Curtice	Nov. 19, 1892	.....
.....	....	Curtice	Nov. 19, 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	...	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
.....	....	Curtice	Nov., 1892	.....
See post-mortems.....	1	Peters.....	Oct. 21, 1892	.....
Not tuberculous	1	Peters	Oct. 21, 1892	.....
.....	....	Peters	Nov. 4, 1892	.....
.....	...	Peters	Nov. 4, 1892	.....
.....	....	Peters	Nov. 4, 1892	.....
.....	....	Peters	Nov. 5, 1892	.....
Tuberculous	6	Peters	Nov. 5, 1892	.....
.....	....	Peters	Nov. 5, 1892	.....
Tuberculous	11	Peters	Nov. 5, 1892	Same as Adams.
.....	....	Curtice	Dec. 20, 1892	.....
.....	....	Curtice	Dec. 20, 1892	.....
.....	....	Curtice	Dec. 21, 1892	.....
.....	....	Curtice	Dec. 22, 1892	.....
.....	....	Curtice	Dec. 22, 1892	.....
.....	....	Curtice	Dec. 22, 1892	.....
.....	....	Curtice	Dec. 22, 1892	.....
.....	...	Curtice	Dec. 23, 1892	.....

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Eastview	Lynch, Aug.	19	18	1	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
Eastview	Brown, J. F.	18	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastview	Brown, S. A.	16	10	1	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastview	County House	17	12	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastview	Decker, Mrs. H. S.	19	11	1	...	5	2	...	...	...	...	...	...	...	...	...	...	...	...
Elmsford	Reynolds, H. A.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Elmsford	Buckhout, Clinton	18	14	0	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Gates, Ferdinand	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Meyer, August	27	23	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Geiss, Peter	23	22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Lent, John W.	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Rapp, Frederick	14	8	1	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...
Riggsville	See.	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Hope, Peter	16	13	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Wright, Walker	12	11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Odel, Dykeman	15	9	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Peene, Capt. J. G.	15	13	2	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...
Ardsley	Lefurgey, A. C.	11	6	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Tompkins, J. M	12	9	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Tompkins, G. S.	8	5	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Lefurgey, Warner	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Kaffmann, Peter	44	35	1	2	6	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Lawrence, J. B.	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Hunt, Isaac	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Bemer, Mrs. Ed	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White Plains	Leirness, A. T. & J. H.	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenville	Sherwood, Jno. H.	12	5	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenville	Minraph, Otto.	5	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenville	Olsen, G. L.	32	25	2	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Gilbert Robinson Home	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Townsend, A. M.	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Seh, Henry.	18	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Robinson, W. J.	105	102	3	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
Tuckahoe	Reynolds, N. & Son.	34	32	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Collins, Ed	29	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuckahoe	Reynolds, E. W.	24	23	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Evans, L. F.	23	19	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Mooney, M. H.	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Amawalk	Dean, A. N	31	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Morrow, John.	17	14	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Hartman, Jacob	53	49	...	0	4	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Dec. 28, 1892	....
....	....	Curtice	Dec. 28, 1892	....
.....	....	Curtice	Dec. 28, 1892	....
.....	....	Curtice	Dec. 28, 1892	.....
....	....	Curtice	Dec. 28, 1892	.....
.....	....	Curtice	Dec. 28, 1892	.....
.....	....	Curtice	Dec. 28, 1892	.....
....	....	Curtice	Dec. 27, 1892	....
....	....	Curtice	Dec. 27, 1892	.....
.....	....	Curtice	Dec. 27, 1892	.....
.....	....	Curtice	Dec. 27, 1892	.....
....	....	Curtice	Dec. 27, 1892	.....
... .	....	Curtice	Dec. 28, 1892	....
....	....	Curtice	Dec. 28, 1892	.....
....	....	Curtice	Dec. 28, 1892	.....
.....	....	Curtice	Dec. 28, 1892	.....
Tuberculous	1	Curtice	Dec. 28, 1892	.....
....	....	Curtice	Dec. 28, 1892	.....
.....	....	Curtice.	Dec. 28, 1892	....
....	....	Curtice	Dec. 28, 1892	....
.....	....	Curtice	Dec. 28, 1892	.....
.....	....	Curtice	Dec. 28, 1892	.....
....	....	Curtice	Dec. 30, 1892	....
.....	....	Curtice	Dec. 30, 1892	.....
.....	....	Curtice	Dec. 30, 1892	....
....	....	Curtice	Dec. 30, 1892	.....
....	....	Curtice	Dec. 30, 1892	.....
....	....	Curtice	Dec. 30, 1892	.....
.....	....	Curtice	Dec. 30, 1892	....
.....	....	Curtice	Dec. 30, 1892	....
.....	....	Curtice	Dec. 30, 1892	.....
.....	....	Curtice	Jan. 4, 1893	.....
Tuberculosis	1	Curtice	Jan. 4, 1893	....
.....	....	Curtice	Jan. 7, 1893	....
....	....	Curtice	Jan. 7, 1893	....
.....	....	Curtice	Jan. 7, 1893	....
.....	....	Curtice	Jan. 7, 1893	....
....	....	Curtice	Jan. 9, 1893	.....
.....	....	Curtice	Jan. 9, 1893	....
.....	....	Curtice	Jan. 18, 1893	....
.....	....	Curtice	Jan. 18, 1893	....

WESTCHESTER COUNTY—

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Yonkers	Lent, Mrs P. A.	28	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Hewes, E. W.	10	9	...	0	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Underhill, C.F.&J.V.	15	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Dusenberry, C. R.	20	20	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
Ardsley	Acker, Wm.	47	46	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Lawrence, Furman.	27	26	1	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
Yonkers	Shampney, Andrew.	18	17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Brown, J. W.	60	52	1	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Lefurgey, D. D.	11	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Cole, H. H.	28	24	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Sheltering Arms.	17	12	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenburg	Connor, Benj.	12	8	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
...	Bloomingdale Asyl.	80	80	...	...	...	...	2	...	...	...	...	...	2	2	...	...	...	...
Scarsdale	Adams, Mrs. Helen.	31	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison	Hitchcock.	....	....	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...
Harrison	Reid, Whitelaw.	67	47	1	...	9	10	...	...	...	...	...	...	...	...	...	...	...	...
West Farms	Catho. Protectorate	53	47	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Mamaroneck	McCabe, Wm.	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Larchmont	Palmer, Mrs. J. B.	13	12	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Larchmont	De Freitas, E. B.	16	13	1	...	...	2	...	..	...	...	...	...	...	...	...	...	...	...
Larchmont	Maddock, Jno.	13	9	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Murray, Margaret.	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Hussey, James.	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pelham	Mulligan, Mike.	21	16	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Underhill, G. W. L.	16	12	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Trainor, J. H.	10	7	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Lee, Wesley.	22	20	1	...	1	...	1	...	1	...	...	...	...	1	...	...	...	...
New Rochelle	Gunther, A. E.	30	26	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Ensinger, F.	10	7	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	..
New Rochelle	Gooding, E. A.	14	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Foote, H. T.	10	5	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Disbrow, J. D.	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Rochelle	Secor, C. D.	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pelham	Welsh, Patrick.	19	15	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Pelham	Hall, Richard.	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pelham	Marshall, Sarah.	8	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Baychester	May, Francis.	17	16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baychester	Waterbury, J. M.	17	11	1	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...
Baychester	Zimmer, Chas.	24	17	1	...	4	2	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Syska, M. A.	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Ferris	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Jan. 13, 1892	.....
.....	....	Curtice	Jan. 13, 1892	.....
.....	....	Curtice	Jan. 13, 1892	.....
.....	....	Curtice	Jan. 13, 1892	.....
.....	....	Curtice	Jan. 14, 1892	.....
.....	....	Curtice	Jan. 14, 1892	.....
.....	....	Curtice	Jan. 14, 1892	.....
.....	....	Curtice	Jan. 14, 1892	.....
.....	....	Curtice	Dec. 16, 1892	.....
.....	....	Curtice	Dec. 16, 1892	.....
Not tuberculous	1	Curtice	Dec. 17, 1892	Injury of lung.
.....	....	Curtice	Dec. 18, 1892	.....
(2) Tuberculous	3	Curtice	Dec. 18, 1892	.....
.....	....	Curtice	Jan. 19, 1893	Re-examination. See McGibney.
.....	....	Curtice	Jan. 20, 1893	Re-examination.
Not tuberculous	1	Curtice	Jan. 20, 1893	Re-examination.
.....	....	Curtice	Jan. 27, 1893	Examined previously by Dr. Peters.
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Jan. 31, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
Tuberculous 1.....	2	Curtice	Feb. 1, 1893	Tagged March 7, 1893.
.....	....	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 1, 1893	.....
.....	...	Curtice	Feb. 1, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	Tagged February 4.
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....

WESTCHESTER COUNTY —

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.										
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.	Calves.
Westchester	Fraser, Jno..... ...	22	21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Callahan, Mrs.....	32	27	1	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
East Chester	Trott, Philip	64	63	1	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
East Chester.....	Trigg & McCaffrey..	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Deere, W. H.....	39	32	1	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Hill, E	30	28	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Mays, S. H.....	5	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Lang, Anton	64	63	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pennyfield.....	Ady, Fred'k	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pennyfield.....	Wismer, F. D.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Havermeyer, T. J...	9	5	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Morris, Jno. A.....	8	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Huntington, C. P ...	16	9	1	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Brown, Bruce.....	13	11	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Cavenagh, R..... ..	5	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	O'Connell, Thos.....	12	10	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	St. Orph. asylum ...	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Davidson, E. L.....	7	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	Frey, Jacob	12	10	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck....	St. Joseph's Inst'ute.	13	8	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Throgg's Neck...	Welch	6	4	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
....	Miscellaneous.....	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	Sullivan	26	25	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	Darledh, Leonese...	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	Schellenberg, N.....	35	33	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	Doty, Mrs. Edw.....	11	7	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...
Unionport	Screven, Jno. H.....	10	7	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Devine, Mrs. M. F...	23	21	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Acad. Sacred Heart.	13	12	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Farms	Watson, H. R. C	20	11	2	...	3	4	...	...	...	...	...	...	...	...	...	...	...	...
Westchester	Greene, C..	36	35	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronxdale	Schwab, Joseph	149	148	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronxdale	Ghee, I.....	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Yonkers ...	Armname, C..	8	5	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...
North Yonkers ...	Denike, Thos.....	24	16	1	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...
North Yonkers ...	Dencke, Isaac R	9	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Moore, Jno	37	37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Hyde, Dan'l..... .	16	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Vandewenter, J	14	4	1	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Hunter, C. B	7	5	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...

(*Continued*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 4, 1893	.....
Tuberculous	1	Curtice	Feb. 4, 1893	.....
.....	....	Curtice	Feb. 7, 1893	.....
.....	....	Curtice	Feb. 7, 1893	.....
Not tuberculous	1	Curtice	Feb. 7, 1893	Tagged February 7.
.....	....	Curtice	Feb. 7, 1893	.....
.....	....	Curtice	Feb. 7, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
.....	....	Curtice	Feb. 8, 1893	.....
Not tuberculous	1	Curtice	Feb. 8, 1893	Tagged February 8.
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	....	Curtice	Feb. 9, 1893	.....
.....	...	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 11, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....
.....	....	Curtice	Feb. 15, 1893	.....

Location.	OWNER.	Number in herd.	Cows.	Bulls.	Steers.	Heifers.	Calves.	Number tuberculous.	BREED.									
									Holstein.	Jersey.	Alderney.	Ayrshire.	Guernsey.	Native, mixed and unknown.	Cows.	Bulls.	Steers.	Heifers.
Yonkers	Bath, Ruloff.....	9	6	...	...	3	.	...	...	...	...	...	...	...	...	...	...	...
Dunnwoodie....	Peckham, E. N... ..	41	38	1	...	2	..	...	...	...	...	...	...	...	...	...	...	...
South Yonkers.	Grace, W.....	26	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Shaw, Mrs.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yonkers	Grott, Jno. W.....	25	20	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Yorktown	Strang, N. C.	53	45	1	2	5	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	.....	6278	5585	149	114	314	166	37	2	2	8	1	...	24	36	1	...	...

(*Concluded*).

Post-mortem lesions.	Number killed.	Inspector.	Date of examination.	Remarks.
.....	....	Curtice	Feb. 16, 1898	.....
.....	....	Curtice	Feb. 16, 1898	.....
.....	....	Curtice	Feb. 16, 1898	.....
.....	....	Curtice	Feb. 16, 1898	.....
.....	....	Curtice	Feb. 16, 1898	.....
.....	....	Curtice	Mar. 8, 1898	.....
.....	....			

Post-Mortem Observations.

ALLEGANY COUNTY.

Herd of A. J. Hood. Richford, Allegany county, November 10, 1893.

Variety, Jersey. Age, 6 years. Sex, female. Condition poor.

Tuberculin experiments:

Time.	Temperature.
9 p. m.	103
Injection:	
8.30 a. m.	104.2
10.45 a. m.	105.2

Lymphatics.— Retro-pharyngeal, small, with few cheesy foci. Inguinal, with one small, cheesy nucleus. Post. and ant. mediastinal glands, enormous, seven by four by two, hard, gritty, beginning to break in center. Cardiac, fist size, hard, yellow, gritty. Hepatic, egg size, hard, yellow, gritty. Intestinal, enlarged and hardened throughout. Other abdominal, stiffened with tubercular deposits.

Serous membranes.— R. and L. pulmonaries with attachments and few scattered masses of tubercles. R. costal, like pulmonaries. Diaphragmatic, apparently free, but lung not removed. Omentum, with few small, scattered tubercles.

Organs.— Trachea, not observed. Lungs, right and left, with large masses of gritty deposits. Liver, with few small tubercles, one two inches in diameter, subserous. Spleen, with three or four small tubercles in parenchyma. Kidneys, free. Uterus with five to six months' foetus.

Diagnosis.— Generalized tuberculosis, in the last stages.

Note.— Of this animal the inspector observes: Difficulty in respiration quite apparent. Said to have but little discharge at nostrils. Breath said to be quite offensive at times. On auscultation, the difficulty quite apparent on each side. Little or no pleuritic rubbings. Respiration in large pipes apparent. Vesicular murmurs absent in areas. Was in the last stage of consumption, and evidently had been diseased some time. She had changed ownership a number of times.

CAYUGA COUNTY.

Herd of A. H. Goodrich, Oakwood, Cayuga county, September 14, 1893.

(1) Variety, Grade Guernsey. Age, 4 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.4
Injection:	
7 a. m.	102.6
9.30 a. m.	103.8
11 a. m.	106.3

Shoulder glands enlarged, white fibrous foci. Post. pharyngeals not enlarged, with incipient foci. Neoplastic growths on pleura of left costal. Minute tubercles in anterior lobe of left lung. Cardiac node with tubercles, egg size. Neoplasm on greater omentum. Lymphatic glands reddened. Neoplasms on spleen. Inguinals enlarged. Uterus with large foetus.

Diagnosis.— Incipient tuberculosis.

(2) Variety, Grade Guernsey. Age, 3 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Afternoon	102.6
Injection:	
Forenoon	104.4
Forenoon	106.7

Throat glands, five by two by three inches, cheesy, breaking down into abscesses. Right shoulder gland enlarged. Lungs free. Post. mediastinal lymphatic, egg size, tuberculous, gritty, yellow, hard. Other glands in white, fibrous stage. Pericardium and omentum with neoplasms. Hepatic lymph, gland enlarged, no foci. Intestinal, with scattered tubercles. None in lymph. of intestines.

Diagnosis.—Tuberculosis, medium.

Note.—As other cattle showed the presence of tumors, the intestinal lesions may have been these. From their nature, I am inclined to believe them tuberculous. They were diffuse, rather than circumscribed; yellow, not green, and scattered.

(3) Variety, Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Afternoon	103
Injection:	
Forenoon	105
Forenoon	105.2

Shoulder glands enlarged, fibrous, reddened. Inguinal double-fist size, with hard, cheesy tubercles. Post. pharyngeal, small tubercles. Right lung, anterior and post. lobes, with one fist-size abscess; left lung with one small tubercle, butternutsize. Post-

mediastinal node, three by one inch; other enlarged with tubercle, cheesy. Pericardium with small amount of neoplasms. Omentum with many neoplasms, without tubercles.

Diagnosis.— Generalized tuberculosis.

(4) Variety, half Jersey. Age, 2 years. Sex, female. Tuberculin experiment:

Time.	Temperature.
Afternoon	103.1
Injection:	
Forenoon	106.2
Forenoon	106.5

Post. pharyngeals enlarged, tuberculous, many glands. Shoulder glands enlarged, with hard, cheesy tubercles. Pleura of both lungs with tubercles. Large patch on left posterior border. Small tubercles scattered throughout lungs on each side. Hepatic lymph. enlarged, not cheesy. Omentum and spleen with neoplasms. Cardiac with tubercles. Intestinal lymphatics, with foci. Oesophagostoma tumors in intestine.

Diagnosis.— Generalized tuberculosis.

(5) Variety, Registered Guernsey. Age, 3 years. Sex, female. Tuberculin experiment:

Time.	Temperature.
Afternoon	103.6
Injection:	
Forenoon	104.7
Forenoon	105.4

Post. pharyngeal, four inches in diameter, with abscess. Right lung with four abscesses, and other tuberculous masses. Left lung with scattered patches. Neoplasms on diaphragm next aorta, also on pericardium. All glands enlarged. Post. medi-

astinal, three by one by one inches. Others, egg size. Cardiac, egg size. Neoplasms without tubercles on omentum.

Diagnosis.— Advanced tuberculosis.

(6) Variety, Jersey Short Horn. Sex, female. Age, 2 years.

Tuberculin experiment:

Time.	Temperature.
Afternoon	103.4
Injection:	
Forenoon	103.4
do	106.6

Shoulder glands enlarged, with many white fibrous foci. Inguinals, also post. pharyngeals, tumid, with fibrous foci. Neoplastic growths on left costal pleura surface. Post. mediastinal gland with scattered foci. Cardiac, with fibrous foci. Pericardium, with neoplasms. A hernia of the liver through diaphragm on right side. Lung attached to liver and pea-size tubercle in lung at attachment. Intestinal lymphatics with tubercles. Oesophagostoma tumor in intestine.

Diagnosis.— Incipient tuberculosis.

(7) Variety, Little Jersey. Sex, female. Age, 2 years.

Tuberculin experiment:

Time.	Temperature.
Afternoon	103.5
Injection:	
Forenoon	105.0
do	104.1

Right shoulder gland enlarged and reddened. Post. pharyngeal, goose-egg size. Right thoracic wall with neoplasms. Post. mediastinal, six inches by two inches by two inches, with abscess. All enlarged, hen's-egg size. Cardiac, goose-egg size.

Anterior lobe of right lung, in fact the pendant portion of all lobes of each side, peppered with shot-size tubercles. Much new inflammatory lesions in the vicinity of all. Pericardial sac with neoplastic growths. Hepatic glands with cheesy tubercles. Intestinal lymphatics with tubercles. Omentum with neoplasms. Left shoulder gland enlarged, reddened and with fibrous foci.

Diagnosis.—Generalized advanced tuberculosis.

(8) Variety, Jersey. Sex, female. Age, 2 years.

Tuberculin experiment:

Time.	Temperature.
Afternoon	103.4
Injection:	
Forenoon	107.6
do	106.4

Shoulder gland reddened. Flank gland reddened. Throat gland enlarged, with fibrous foci. Two large fist-size abscesses, one in post. portion of each lung. Post. mediastinal, four inches by two inches by one inch, hard, cheesy. Ant. mediastinal enlarged, with foci. Cardiac, goose-egg size, with cheesy abscess in center, with pea-size tubercle surrounding other masses of tubercle in lungs. Neoplasms on pericardium, on both pleurae. Inguinals slightly enlarged, with fibrous foci. Left shoulder gland with fibrous foci. Oesopgagostoma tumors in intestine.

Diagnosis.—Advanced tuberculosis.

(9) Variety, one-half Guernsey, one-half Short Horn. Sex, female. Age, 4 years.

Tuberculin experiment:

Time.	Temperature.
Afternoon	101.2
Injection:	
Forenoon	104
do	104.0

Left pharyngeal, slightly enlarged, with beginning cheesy tubercles. Left shoulder glands, enlarged foci, in fibrous stage. Thoracic all greatly enlarged, goose-egg size. Cardiac glands, cocoanut-size. Lungs, right side the worst. All of the anterior portion caseous and gritty, attached in all parts. Few shot-size tubercles scattered in the substance of each lung. Left also attached to costal walls, both attached to diaphragm. Very little pericarditis. Intestinal lymph. glands, with scattered tubercles. Uterus, free. Call, with neoplasms, without tubercles.

Diagnosis.— Advanced tuberculosis.

CORTLAND COUNTY.

Herd of Howard Parker, Homer, March 10, 1893.

On above date, Dr. Law reports one case of advanced tuberculosis and one case slight (?) Sural.

On March 27, 1893, Dr. Curtice reports as follows:

This herd had been dry during the winter, and but lately one or two calved. They were in very good condition, the owner following a mistaken policy of not feeding grain while the cows were not producing. A heifer and a cow were added last fall. The heifer, and, I think, the cow, died after the visit of Dr. Law. The heifer died of pneumonia. One portion of the lung, the tip of the lobe, had in it a solid mass that seemed to be of older origin than the pneumonia. The heifer was said to have had the catarrh earlier. Altogether, this cow seems to have had the disease met with so frequently during our investigation, perhaps an influenza. While one of the lungs of the other cow had some pneumonia, there did not seem to be sufficient to cause death. There was no appearance of tubercles in either.

I examined the whole herd by auscultation, and more especially one old, red cow, said to have looked suspicious on

the earlier visit of Drs. Law and Baker. She had evidently recovered from whatever physical disturbance she had at that time.

Herd of Burdett Knapp, Cortlandville, March 10, 1893.

On above date, Dr. Law reports one case of abdominal tuberculosis.

On March 27, 1893, Dr. Curtice reports as follows:

The local board had, on March ninth or tenth, employed the services of Dr. James Law, who agreed with Dr. Baker that certain cases looked suspicious in both herds. At this time no cows had died. Within a few days after Dr. Law's inspection, one cow died. I saw half of the lung of this cow, and a portion of the intestine, such as I chose to uncover. The cow was with twin calves. She had last fall been forced in feeding for show purposes, and being driven to the fair in nasty, cold weather, had contracted diarrhoea. Since then had been ailing, thus giving suspicion of chronic disease. According to my hearsay information, Dr. Law suspected tubercle of the intestines and mesenteries, rather than of lungs.

I saw no appearance of tubercles in the carcass. Although the animal had been dead some days, the cold had preserved the tissues fairly well. One-half the lung was gone, having been taken away by a non-graduate farrier and a student. The cause of her death is unknown.

The black cow, pointed out to me by Dr. Baker and regarded as suspicious, yielded no symptoms on auscultation. If tuberculous, it must be determined in some other way than by physical diagnosis.

A young bull standing next the wall, where a strong draft from outside poured through a crack, gave bre[illegible]ales and pips. The bull was a late acquisition from Vi[illegible] Iowa. It might be of value to inspect this bull in settled weather.

Two cows had somewhat disturbed breathing. However, I examined the herd from which all these Jerseys had come, and

found no sign of tuberculosis in it, nor any history which would lead one to suspect it.

DELAWARE COUNTY.

Herd of Perry Shaw, Delhi, August 5-17, 1893.

(1) Variety, Grade Jersey. Age, 10 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
6.30 p. m.	101.9
Injection, 8 p. m.	
8.15 a. m.	103.4
10.45 a. m.	101
1.30 p. m.	102.1
4.30 p. m.	102.4

Outside shoulder glands, enlarged and reddened; small tubercle in post. mediastinal gland; formative tubercles in cardiac, i. e., without cheesy centers.

Diagnosis.—Incipient tuberculosis.

(2) Variety, Jersey. Age, 4 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	104.2
Injection:	
Morning	104.8
do	104.

Very weak and emaciated. Killed on farm, because of being too weak to travel far.

Tubercles in thorax, mostly on pleura and in glands; none in abdomen.

Diagnosis.— Advanced tuberculosis.

(3) Variety, Jersey. Age, 7 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	103.5
do	107.1

Throat and mediastinal glands, two or three times enlarged, with no foci, i. e., cheesy foci. Whitish circumscribed areas on section in several glands. Cardiac, the same. Lungs, normal, but attached to diaphragm on right side. Liver, also attached. Thirty of forty egg-size abscesses; adjoining tissue, infiltrated with serum. Omentum, with tubercular neoplasms; fringe on border of lungs. Intestinal lymphatics, enlarged, no foci seen. General condition of animal poor, hide-bound. Liver, somewhat cirrhosed.

(4) Variety, Alderney. Age, 7 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	103.2
do	106.1

Throat glands (retro-pharyngeal) of the size of English walnuts, with hard, yellow masses. All mediastinal very large, one seven inches by three inches by one and a half inches. Cardiac, fist-size, all hard, not broken down. Lungs, with seven or eight fist-size tumors, hard, but with soft caseous or creamy centers.

Also several smaller tumors scattered throughout. No tubercles or neoplasms on pleura. Liver with two or three egg-size abscesses. Many intestinal lymh. nodes, enlarged, with cheesy tubercles. Hepatic lymph. nodes, enlarged and tubercular. No omental neoplasms.

Diagnosis.—Advanced tuberculosis.

(5) Variety, Jersey. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.
Injection:	
Morning	105.6
do	107.2

Retro-pharyngeal lymph. nodes, enlarged, one egg-size, with abscess. Others smaller, with tubercles. Cardiac with indurated nodules. Left lung with one nut-size tubercle and one pea-size.

Diagnosis.—Incipient tuberculosis.

(6) Variety, Jersey. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	104.8
do	105.4

Flank glands, shoulder glands and inguinals, all with few minute tubercular foci; also post. pharyngeal and all mediastinal nodes. Cardiac, egg-size, with large tubercles. Left lung adherent by large patch, pleuritic origin, in left anterior portion. A small attachment on right lung. Few nodules of small size in each, tubercular. Neoplasm, with tubercle on spleen.

Diagnosis.—Advanced tuberculosis.

(7) Variety, Jersey. Age, 13 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	102.8
do	105.4

External glands enlarged, reddened. Retro-pharyngeal, pigeon-egg size, with cheesy center. Cardiac gland, with few centers.

Diagnosis.—Incipient tuberculosis.

(8) Variety, Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	106.4
do	103.4

Cardiac, with one or two minute yellow tubercles; other glands reddened, showing also white indurated areas.

Diagnosis.—Incipient tuberculosis.

(9) Variety, Jersey. Age 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.3
Injection:	
Morning	103.5
do	105.6

Two pea-size tubercules in left lung.

Diagnosis.—Incipient tuberculosis.

(10) Variety, Jersey. Age, 9 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	103.9
do	104.8

Cardiac lymph. node with one minute tubercle.
Diagnosis.— Incipient tuberculosis.

(11) Variety, Jersey. Age, 7 years. Sex female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.3
Injection:	
Morning	102.2
do	104.2
do	102.1

Cardiac gland, with few cheesy foci, others reddened.
Diagnosis.— Incipient tuberculosis.

(12) Variety, Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	102.1
do	103.6
do	105.0

Outside. There were two subcutaneous and intra muscular bunches on the outside of the hind legs above the hocks. One had hardened (calcareous ?) contents; the other with yellow fluid serum. Cardiac gland with a white (fibrous ?) circular patch on section. Nothing else seen.
Diagnosis.— Probably tuberculous.

(13) Variety, Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	103.4
do	104.2

Cardiac lymph. node only with tubercle. Margin of lung with neoplastic fringe. Ribs on right side also with commencing neoplasms.

Diagnosis.— Incipient tuberculosis.

(14) Variety, Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.5
Injection:	
Morning	105.6
do	106.0

External lymph. nodes and post. pharyngeal, enlarged. All mediastinal and cardiac affected, two or three nut-size nodes in right lung. Neoplasms on omentum.

Diagnosis.— Tuberculosis.

(15) Variety, native. Age, 8 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.7
Injection:	
Morning	102.0
do	105.1

Retro-pharyngeal nodes, little enlarged. Posterior mediastinal, fist-size. Neoplastic fringe on border of both lungs and neoplasms on omentum.

Diagnosis.— Tuberculous.

(16) Variety, native. Age, 10 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	106.3
do	105.0

Very minute foci in posterior mediastinal and cardiac glands only.

Diagnosis.—Incipient tuberculosis.

(17) Variety, Jersey. Age, 2 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	103.4
Injection:	
Morning	106.4
do	105.6

Shoulder lymph. nodes, twice enlarged, completely studded with hemorrhagic points. Inguinal, with white hardish areas, due to (probably) incipient tubercle or first stage. Retro-pharyngeals, enlarged, but no yellow foci. Posterior mediastinals, very large, five inches by two inches by one and a half inches. Cardiac small, with white circle on section. One nodule found on pleura. Slight neoplastic growths on omentum.

Diagnosis.—Tuberculosis.

(18) Variety, Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	104.4
do	106.1

External lymph. nodes, enlarged, also post. pharyngeal. Post. mediastinal, anterior and cardiac, with many foci.

Diagnosis.— Incipient tuberculosis.

(19) Variety, Jersey. Age, 3 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	105.7
do	105.8

Posterior mediastinal, glands very large, five inches by one and a half inches by one inch, and studded with tubercles. Cardiac, small and free of tubercle. Omentum, with neoplasms.

Diagnosis.— Incipient tuberculosis.

(20) Variety, Jersey. Age, 3 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	104.4
do	104.0

Cardiac glands, with two or three nodes. Retro-pharyngeal, enlarged. Hepatic lymph. nodes, with tubercle.

Diagnosis.— Incipient tuberculosis.

(21) Variety, Ayrshire. Age, 7 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	105.7
do	106.5

External lymph. nodes, reddened. Mediastinal, slightly affected, i. e., ant., post. and card. Lungs, with half a dozen nut-size nodes in both. Intestinal lymph. nodes, with few tubercles.

Diagnosis.— Incipient tuberculosis.

(22) Variety, Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.7
Injection:	
Morning	106.2
do	106.4

Post. pharyngeal lymph. nodes, with butternut-size abscess. External nodes, reddened and enlarged. Mediastinal, very large, six inches by two inches by one inch. Cardiac, egg-size, all with tubercles. Several lumps in right and left lung, one fist-size. Intestinal lymph. nodes, also with tubercle.

Diagnosis.—Generalized tuberculosis. Advanced.

(23) Variety, Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	106.3
do	105.1

Retro-pharyngeal, little enlarged. Mediastinal, two or three times normal size, with cheesy foci. One egg-size tumor in one lung, two in the other. Neoplasms without tubercle on costal. Nose, with evidence of catarrh, discharging a glairy mucus. Numerous inflammatory swellings, without erosions on septum and convoluted bones, especially toward the nostrils.

Diagnosis.—Tuberculosis and nasal catarrh.

(24) Variety, Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	106.5
do	106.7

External nodes, enlarged and reddened. Post. pharyngeal, free All mediastinal, very large and broken down. One as large as an orange. Abscesses scattered through lungs. Minute neoplasms on omentum.

Diagnosis.— Advanced case of tuberculosis.

Remarks.— Quantity of tuberculin used. For an adult: O. 25 c. c., diluted with nine times the amount of a half per cent carbolic solution. For a yearling: About one-half of this dose. For 2-year-olds, a little less for an adult.

Of this herd the inspector says: "It was made up about seven years ago by buying calves of different herds in the vicinity." Two years ago last March the tenant, Watson McGlory, added a few head of his own, on taking the farm. For twelve years up to that time he had not lost an animal with any such disease, but in the two years preceding the inspection twelve animals in this herd died from tuberculosis. The previous history of the herd, as well as the physical signs, furnish evidence of a badly infected herd.

Herd of J. D. Lawrence, Bloomville, October 17, 1893.

(1) Variety, Grade Jersey. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m	102.4
9 p. m., Injection:	
7.45 a. m	105.1
9.45 a. m	105.6
11.45 a. m	105.0
1.30 p. m	105.4
3.00 p. m	.....

Condition good. Left shoulder gland, with fibrous foci; others reddened. Anterior mediastinal gland, with few scattered tubercles. Tubercules scattered over omentum.

Diagnosis.— Incipient generalized tuberculosis. Mild case.

(2) Variety, Grade Jersey. Age, 4 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	104.5
do	105.2
do	105.3
Afternoon	105.0

Condition, good. Throat nodes, slightly enlarged. Shoulder also. Post. mediastinal, ant. and cardiac lymphatics, with nodules. Neoplastic fringe on border of lung. Intestinal lymphatics, with few nodes. Left lung, with egg-size abscess and few contiguous nodules. Foetus of eight months in the uterus.

Diagnosis.—Medium generalized tuberculosis. Scarcely medium, but more than incipient.

(3) Variety, Grade Jersey. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	103.1
do	103.4
do	102.2
Afternoon	102.2

Good order. No lesions except on omentum, which had slight scattered neoplasms. On the right front leg is an artery as suspicious, yielded no symptoms on auscultation. If tubercu- Foetus of about seven months in the uterus.

Diagnosis deferred. Material has been saved for the pathologist.

(4) Variety, Grade Jersey. Age, 8 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.5
Injection:	
Morning	105.0
do	105.8
do	104.0

Thin order. Mediastinal glands, enlarged, with cheesy foci; cardiac, also; adhesions of each lung to thorax, but no deposits of cheesy matter. These adhesions are like bands and seem to indicate earlier pleurisy. Right lung, with many abscesses, the left with a few. The mass of these seem to be in the seat of an old broncho-pneumonia. Lymph. node of the liver, large and cheesy. Liver with many scattered nut-size foci. Omentum, with few tubercles and scattered neoplasms. Five months foetus.

Diagnosis.— Advanced tuberculosis generalized, but apparently spreading in the thorax more rapidly because of the former broncho-pneumonia.

(5) Variety, Grade Jersey. Age, 8 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.7
Injection:	
Morning	102.8
do	103.6
do	103.7

Condition very thin; breathing before slaughter labored. Mediastinal glands, much enlarged, but no cheesy centers or fibrous foci. Cardiac, enlarged. Both lungs attached to thorax and diaphragm by fibrous bands and by plastic exudate. Both lungs diseased, but left the most. Many abscesses with purulent, foul-odored material. Pus creamy. Part of lung on section showing marbled appearance, the parenchyma being quite

solid. In places in this, node of the appearance of tubercle, but possibly not. Material submitted. Neoplasms on omentum, but sparse.

Diagnosis.—Chronic broncho-pneumonia. There may also be acute tuberculosis adding to the destruction of lung.

(6) Variety, Grade Jersey. Age, 7 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	104.8
do	106.1
do	105.2
Afternoon	105.4

Condition, good. Only neoplasms on post. border of right lung, on omentum and pericardium. No cheesy foci in lymph. nodes, or any enlargement of them. Calf of six months in uterus. Material submitted. Diagnosis deferred.

(7) Variety, Grade Jersey. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	105.8
do	104.7
do	104.3

Condition good. Shoulder lymph. nodes, with incipient fibrous tubercles. Throat nodes, slightly enlarged. Mediastinal nodes, with cheesy tubercles, but not the cardiac. Neoplastic fringe on border of lung. Foetus of five months.

Diagnosis.—Incipient tuberculosis.

(8) Variety, Grade Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	101.8
do	102.6
do	104.4
Afternoon	103.8

Condition, fair. Mediastinal lymph. nodes, with foci, not cardiac. Abscess in posterior portion of right lung. Neoplastic fringe on right lung. Pericardium neoplasms. No foetus.
Diagnosis.— Incipient tuberculosis.

(9) Variety, Grade Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	106.3
do	106
do	105.4

Condition, good. Tubercular foci in mediastinal and cardiac glands. Slight pericardiac growths. Neoplastic fringe on posterior border of right lung. Foetus of seven months. Age, 9 or 10 years?
Diagnosis.— Incipient tuberculosis.

(10) Variety, ———. Age, 5 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	104
do	106.2
do	106.3

Condition, thin. Very small tubercles in cardiac lymph. node. Few neoplastic tags on omentum. Foetus of six months.

Diagnosis.—Incipient tuberculosis.

(11) Variety, ———. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	102.3
do	103.6
do	104.6
Afternoon	102.6

Condition, medium. The cardiac and one bronchial lymph. node, with tubercle. Shoulder gland slightly enlarged. Foetus of eight months.

Diagnosis.—Incipient tuberculosis.

(12) Variety, ———. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	105.5
do	106.2
do	104.6

Condition, fair. No cheesy tubercle found. No neoplasms seen. Too dark to see. The lymphatic glands of thorax were all examined closely. Foetus of four and one-half months old.

Diagnosis.—(None given.)

Remarks.—"The reaction in the cases of No. 6 and No. 12," says Inspector, "were so positive that it seems scarcely probable that these animals were not tuberculous. No. 3 may have had a fluctuation due to some other cause. * * * The small amount of tubercles found indicates that the tuberculin has done its work effectively, and that none of the disease remains in the herd."

Herd of Wm. Blakeley, East Meredith, October 18, 1893.
Variety, Jersey. Age, 2 years. Sex, female.
Tuberculin experiment:

Time	Temperature.
7.30 p. m.	101.4
9.30 p. m. Injection:	
8 a. m.	103.4
10.30 a. m.	105.4
12.40 p. m.	103.6
2.30 p. m.	102.3

One quarter of udder useless. Mediastinal lymph. nodes, slightly enlarged. Neoplastic fringe on posterior fringe of lungs and on omentum. No cheesy foci. Between the liver and the back is a fist-size abscess, forming part of the liver. It has a half-inch fibrous sac and filled with creamy pus.

Diagnosis.— (None given.)

Material saved.

Remarks.— Inspector thinks this case will probably be among the doubtful cases, and recommends the future examination of the herd, say a year from now.

Herd of N. M. Dart, North Harpersfield, October 19, 1893.
(1) Variety, Devon. Age, 7 years.
Tuberculin experiment:

Time	Temperature.
7.30 p. m.	102.3
9 p. m. Injection:	
7.30 a. m.	103.0
10 a. m.	106.2

Condition fair. Retro-pharyngeal lymphatics, fist-size with abscesses. Cardiac, one millet seed tubercle; intestinal, with pea-size tubercles.

Diagnosis.— Tuberculosis of some duration.

(2) Variety, Devon. Age, 15 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.6
9 p. m., Injection:	
7.30 a. m.	101.6
10 a. m.	103.0
12.30 a. m.	103.4
2.10 p. m.	102.7

Condition, fair. Retro-pharyngeals, with few isolated, one-eighth of an inch foci; two similar foci in sub. max. Prescapular lymphatics, with several soft foci in right. Post. mediastinal, with firm yellow tubercles. Cardiac, r. superficies above first rib with foci, also axillary like post. mediastinal. Hepatic, with one small yellow focus. Intestinal, with irregular gritty foci. Left pulmonary serous membrane, with large, flat, sessile patches of tuberculous masses, agglomerative. Diaphragmatic, like the pulmonary. Right lung, with three soft, cheesy foci, caudal lobe.

Diagnosis.—Medium tuberculosis.

(3) Variety, Devon. Age, 7 years.
Tuberculin experiment:

Time	Temperature.
7.30 p. m.	102.0
9 p. m., Injection:	
7.30 a. m.	106.4
10 a. m.	106.8

Retro-pharyngeal lymphatics, with few tubercles. Intestinal with few more advanced than retro-pharyngeal. Neoplasms on right and left costal serous membranes. Neoplasms on mesenteries and omentum.

Diagnosis.—Slight tuberculosis, probably from feeding.

(4) Variety, Native (Jersey Devon). Age, 5 years. Sex, female. Tuberculin experiment.

Time	Temperature.
7.30 p. m.	101.6
9 p. m., Injection:	
7.30 a. m.	103.4
10 a. m.	104.5

Condition, fair. Post. mediastinal and ant. mediast., two contain several one-eighth of an inch firm yellow foci, each. Left lung, ventral lobe, one-sixteenth inch focus.

Diagnosis.— Mild tuberculosis.

(5) Variety, Devon. Age, 11 years. Sex, female. Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.4
9 p. m., Injection:	
7.30 a. m.	103.2
10 a. m.	104.4

Condition, fair. Both sub-maxillaries, cheesy. Retro-pharyngeal, egg-size, cheesy. Post. mediastinal, enlarged, full, yellowish foci, three inches by one by one. Cardiac, ditto. Hepatic, cheesy tubercles. Intestinal, enlarged with gritty, cheesy foci. Large patches of pea-size tubercles on L. pulmonary. L. costal, like pulmonary. Tubercles exceedingly abundant on abdominal walls; also on mesenteries; also on omentum. Liver covered with tubercles. Uterus, caseous foci in mucosa. No foetus.

Diagnosis.— Advanced tuberculosis.

(6) Variety, Devon. Age, 8 years. Sex, female.

Tuberculin experiment:

Time	Temperature.
7.30 p. m.	101.4
9 p. m., Injection:	
7.30 a. m.	103
10 a. m.	105.4

Condition, fair. Lymphatics, retro-pharyngeal, completely cheesy. Post. mediastinal, several glands with one-eighth inch foci. Intestinal, cheesy, gritty foci in several.

Organs.— Right lung, five or six soft, cheesy foci, caudal lobe, the whole one to two inches in diameter; also, another one-inch focus, cephalic lobe, one cheesy, three-eighths inch focus.

Diagnosis.— Medium tuberculosis.

(7) Variety, Devon. Age, 4 years. Sex, female.

Tuberculin experiment:

Time	Temperature.
7.30 p. m.	102.2
9 p. m., Injection:	
7.30 a. m	105.4
10 a. m	106.8

Condition, fair. Lymphatics, retro-pharyngeal, with scattering, yellow, firm, small foci. Post. mediastinal, soft, cheesy, scattered foci from one-half to one-eighth inch. Cardiac, similar.

Serous membranes.— Pulmonary, with a four by two by one-inch mass of agglomerated tubercles on margin, several smaller on fringes. R. costal, with sessile and pedunculated agglomerated masses. R. lung, with several firm, one-quarter-inch tubercles on right ventral. L. lung, ventral and cephalic lobes, with multiple small foci up to one-half inch in hyperaemic lung tissue; caudal lobe, two-inch focus, made up of one-eighth of an inch yellow foci.

Diagnosis.— Medium tuberculosis.

(8) Variety, Devon. Age, 4 years.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m	101.6
9 p. m., Injection:	
7.30 a. m	105.2
10 a. m	105.8

Condition, fair. Lymphatics, retro-pharyngeal right with two soft, cheesy foci. Post. mediastinal, soft cheesy foci one-half inch. Cardiac, like post. mediastinal. Intestinal, one gland contains several foci. Omentum with doubtful nodules.
Diagnosis.—Mild tuberculosis.

(9) Variety, Native. Age, 5 years, Sex, female.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m	101.4
9 p. m., Injection:	
7.30 a. m	101.5
10 a. m	102.1
12.30 p. m	102.6
2.30 p. m	103.0

Condition, fair. Lymphatics. Cardiac, with two minute, gritty foci. Left lung, caudal lobe one, one-quarter inch yellow foci.
Diagnosis.—Incipient tuberculosis. Lung infection.

(10) Variety, Devon. Age, 4 years. Sex, female.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m	102.1
9 p. m., Injection:	
7.30 a. m	105.1
10 a. m	103.4

Lymphatics.— Retro-pharyngeal, small cheesy foci. Inguinal, three-sixteenths inch yellow, necrotic, firm focus. Post. mediastinal, affected. Cardiac, affected. Intestinal, few minute foci. Renal with few yellow foci. Serous membranes. R. and L. pulmonary, tubercles agglomerative. Pericardium, and right and left costal, studded with tubercles. Mesenteries and omentum with tubercles. R. and L. lungs, caudal lobes, many large cheesy masses. Liver, several foci consisting of aggregations of soft cheesy centers with much connective tissue. Same of spleen and kidneys.

Diagnosis.— Advanced tuberculosis. Generalized.

(11) Variety, Devon. Age, 4 years.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.2
9 p. m., Injection:	
7.30 a. m.	107.2
10 a. m.	106.4

Lymphatics.— Retro-pharyngeal, enlarged parotid with large tuberculous mass. Hepatic, with tubercles quite large. Intestinal, many minute foci surrounded by inflamed tissue.

Serous membranes.— R. costal, each side with large masses of tubercles. Both lungs with acute, scattered nodules, surrounded, in many cases, by pneumonic patches. Liver with large tubercular masses and scattered foci.

Diagnosis.— Advanced tuberculosis.

(12) Variety, Devon. Age, 4 years. Sex, female.

Condition fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.8
9 p. m., Injection:	
7.30 a. m.	104
10 a. m.	105

Lymphatics.—Post. mediastinal, numerous isolated and confluent cheesy, gritty, foci one-eighth of an inch to one-half of an inch. Hepatic, multiple, firm, yellow, one-quarter-inch foci. Intestinal, one containing group one-eighth-inch, firm, yellow foci. Caudal lobe of right lung, one soft, cheesy, one and a half-inch and another one-inch focus. Left lung, caudal and cephalic lobes, each with one-quarter-inch, cheesy focus. Liver, fifteen to twenty scattered, firm, yellow, foci and one group. Uterus with foetus of four months.

Diagnosis.—Mild case of tuberculosis.

(13) Variety, Devon. Age, 4 years.

Condition fair.

Tuberculin experiment:

(No figures given.)

Lymphatics.—Retro-pharyngeal, both diseased, right two inches in diameter. Post. mediastinal, multiple, firm, yellow foci. Cardiac, like post. med. Right lung, post. lobe, with cheesy focus. Left lung, firm focus in post. lobe. Two foci in second cephalic lobe.

Diagnosis.—Medium tuberculosis of some duration.

(14) Variety, Devon. Age, 4 years. Sex, female.

Condition fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.6
9 p. m., Injection:	
7.30 a. m.	104
10 a. m.	105.6

Lymphatics.—Right bronchial, one yellow focus. Hepatic, several small foci. Intestinal, one focus.

Diagnosis.—Incipient tuberculosis. (Feeding infection.)

(15) Variety, Devon. Age, 3 years.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101
9 p. m., Injection:	
7.30 a. m.	101.8
10 a. m.	102.2
Afternoon	103
do	102.6

Lymphatics.— Left sub-maxillary, soft, cheesy. Post. mediastinal, one contains one focus. Cardiac, three firm foci. Intestinal, three glands infected, focus three-fourths of an inch.
Diagnosis.— Mild tuberculosis.

(16) Variety, Devon. Age, 4 years.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.4
9 p. m., Injection:	
7.30 a. m.	105.6
10 a. m.	105.4

Lymphatics.— Post. mediastinal, multiple foci, half inch in diameter, yellow, cheesy, firm, gritty. Cardiac, like post. mediastinal. Intestinal, one soft, cheesy focus. Right lung, with two small one-quarter-inch foci in caudal lobes. Liver, many large masses, some showing two in diameter on surface, others through mass.
Diagnosis.— Advanced tuberculosis.

(17) Variety, Devon. Age, 3 years.
Condition good.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.2
9 p. m., Injection:	
7.30 a. m.	103.5
10 a. m.	104.0

Lymphatics.—Retro-pharyngeal, egg-size, cheesy, soft. Left parotid fist-size, purulent. Post. mediastinal, pin point foci. Cardiac, pin point foci. Intestinal, few pin-head foci. Scattered isolated tubercles on right and left lungs. Liver, with soft caseous foci half an inch in diameter.

Diagnosis.—Mild tuberculosis.

(18) Variety, Devon. Age, 4 years.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.4
9 p. m., Injection:	
7.30 a. m.	103.3
10 a. m.	105.8

Lymphatics. Retro-pharyngeal, small focus. Post. mediastinal, five by one by one cheesy. Cardiac, enlarged, soft, cheesy. Hepatic, fist-size, purulent. Intestinal, few large foci. Serous membranes. Left costal tubercles. Omentum, scattered tubercles. Right and left lungs, with nut size foci. Large tuberculous masses on liver.

Diagnosis.—Medium tuberculosis of some duration.

Condition, thin. Very small tubercles in cardiac lymph. node. Few neoplastic tags on omentum. Foetus of six months.

Diagnosis.— Incipient tuberculosis.

(11) Variety, ———. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	102.3
do	103.6
do	104.6
Afternoon	102.6

Condition, medium. The cardiac and one bronchial lymph. node, with tubercle. Shoulder gland slightly enlarged. Foetus of eight months.

Diagnosis.— Incipient tuberculosis.

(12) Variety, ———. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	105.5
do	106.2
do	104.6

Condition, fair. No cheesy tubercle found. No neoplasms seen. Too dark to see. The lymphatic glands of thorax were all examined closely. Foetus of four and one-half months old.

Diagnosis.— (None given.)

Remarks.— "The reaction in the cases of No. 6 and No. 12," says Inspector, "were so positive that it seems scarcely probable that these animals were not tuberculous. No. 3 may have had a fluctuation due to some other cause. * * * The small amount of tubercles found indicates that the tuberculin has done its work effectively, and that none of the disease remains in the herd."

Herd of Wm. Blakeley, East Meredith, October 18, 1893.

Variety, Jersey. Age, 2 years. Sex, female.

Tuberculin experiment:

Time	Temperature.
7.30 p. m.	101.4
9.30 p. m. Injection:	
8 a. m.	103.4
10.30 a. m.	105.4
12.40 p. m.	103.6
2.30 p. m.	102.3

One quarter of udder useless. Mediastinal lymph. nodes, slightly enlarged. Neoplastic fringe on posterior fringe of lungs and on omentum. No cheesy foci. Between the liver and the back is a fist-size abscess, forming part of the liver. It has a half-inch fibrous sac and filled with creamy pus.

Diagnosis.— (None given.)

Material saved.

Remarks.— Inspector thinks this case will probably be among the doubtful cases, and recommends the future examination of the herd, say a year from now.

Herd of N. M. Dart, North Harpersfield, October 19, 1893.

(1) Variety, Devon. Age, 7 years.

Tuberculin experiment:

Time	Temperature.
7.30 p. m.	102.3
9 p. m. Injection:	
7.30 a. m.	103.0
10 a. m	106.2

Condition fair. Retro-pharyngeal lymphatics, fist-size with abscesses. Cardiac, one millet seed tubercle; intestinal, with pea-size tubercles.

Diagnosis.— Tuberculosis of some duration.

(23) Variety, Devon. Age, 3 years.

Condition fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101.8
9 p. m., Injection:	
7.30 a. m.	103.4
10 a. m.	105.4

Lymphatics.—Retro-pharyngeal, enlarged; parotid, enlarged. Post. mediastinal, few cheesy foci. Cardiac, few cheesy foci.

Diagnosis.—Incipient tuberculosis.

(24) Variety, Devon. Age, 4 years.

Condition fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	101
9 p. m., Injection:	
7.30 a. m.	104.6
10 a. m.	105

Lymphatics.—Retro-pharyngeal, one-inch, cheesy abscess. Post. mediastinal, one gland, with small, firm, yellow focus. Intestinal, several with cheesy foci. R. lung, one, one-eighth-inch focus in caudal lobe of lung. Liver, three foci, cheesy in substance, one-half inch in diameter.

Diagnosis.—Mild tuberculosis. (Food infection.)

(25) Variety, Devon. Age, 4 years. Sex, female.

Condition fair.

Tuberculin experiment:

Time.	Temperature.
Afternoon	101.2
Injection:	
Morning	105.6
do	106.3

Lymphatics.— Post. mediastinal, enlarged, and patches of scattering, cheesy points. Cardiac, like mediastinal. Hepatic, like mediastinal. Intestinal, several with foci up to one inch in diameter. R. lung, caudal lobe, one one-inch abscess; several small, firm foci. L. lung, caudal lobe, two-inch tuberc. abscess. Liver, multiple foci up to one-half inch in diameter. Uterus, with foetus four inches long; four weeks.

Diagnosis.— Mild tuberculosis.

(26) Variety, Devon. Age, 4 years. Sex, female.

Condition fair.

Tuberculin experiment:

(None.)

Lymphatics.— Left sub-maxillary, multiple yellow foci, one-eighth inch. Left parotid, mastoid, retro-pharyngeal, do. Post. mediastinal, multiple yellow foci.

Diagnosis.— Mild tuberculosis. (Food infection.)

(27) Variety, Devon. Age, 4 years.

Condition fair.

Tuberculin experiment:

(None.)

Lymphatics.—Retro-pharyngeal, cocoanut-size puriform. Post. mediastinal very large, puriform. Cardiac, very large, cheesy. Hepatic, tuberculous. Intestinal with cheesy tubercles. Serous membranes. R. pulmonary, tubercles, large masses. L. pulmonary tubercles, large masses. R. costal, tubercles, large masses. Diaphragmatic, thoracic side, tubercles. Omentum, with tubercles. Both lungs with abscesses.

Diagnosis.— Advanced tuberculosis.

(28) Variety, Devon. Age, 5 years. Sex, female.

Condition emaciated.

Tuberculin experiment:

(None.)

Cow killed in place. Too weak to drive. Serous membranes, lungs and glands, liver and mesenteric glands all affected.

Uterus, not. Other parts not remembered. External glands not affected.

Diagnosis.—Advanced tuberculosis.

(29) Variety, Devon. Age, 2 years. Sex, male.

Tuberculin experiment:

(Temperature before injection, not given.)

Time.	Temperature
9 p. m., Injection:	
8.30 a. m	104.4
11 a. m	104.8

Lymphatics.—Post. mediastinal, large, with many soft, yellow foci; a second in same condition. Cardiac, less far advanced. Ventral lobe of left lung, two soft, cheesy foci, one-half and three-quarters of an inch in diameter. Caudal lobe, two cheesy foci of same size.

Diagnosis.—Mild to medium tuberculosis.

(30) Variety, Devon. Age, 2 years. Sex, female.

Condition (not given).

Tuberculin experiment:

(Temperature before injection, not given.)

Time.	Temperature.
8.30 a. m	104.8
11 a. m	105.3

Lymphatics.—Post. mediastinal contain large number of yellow, cheesy, projecting foci, one-eighth of an inch, crowded. R. lung, between caudal and ventral lobe on one-half-inch necrotic sub-pleural focus.

Diagnosis.—Tuberculosis (infection, air).

(31) Variety, Devon. Age, 2 years. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Time.	Temperature.
8.30 a. m	102
11 a. m	102.5
1.30 p. m	102.6
3 a. m	102.8

Subcutaneous abscess over right hock. Retro-pharyngeal lymphatic glands, one, one by three inches, and one, one by two inches, contents, soft, purulent.

Diagnosis.—Mild tuberculosis.

(32) Variety, Devon. Age, 1 year. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Time.	Temperature.
8.30 a. m	101.6
11 a. m	102
1.30 p. m	102.9
3 p. m	102.4

Lymphatics.—Post. mediastinal, large, completely infiltrated with tubercles. Some, recent. Portal, many grayish foci, one-quarter by one-half inch in diameter, with yellow, necrotic masses. Hepatic like mediastinal. Mesenteric, three, with a half inch focus, with calcareous particles. Uterus three inches long, foetus (six weeks).

Diagnosis.—Tuberculosis. (Food infection.)

(33) Variety, Devon. Age, 2 years. Sex, female.

Condition fair.

Tuberculin experiment:

(Temperature before injection, not given.)

Time.	Temperature.
8.30 a. m	100.6
11 a. m	102.2
1.30 p. m	102.8
3 p. m	102.2

Uterus, with four weeks' foetus.

(34) Variety, Devon. Age, 3 years. Sex, male.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 p. m	106.6
11 a. m	105.6

Lymphatics.— Right retro-pharyngeal, one half with grayish cheesy and calcareous foci, scattering necroses. Post. mediastinal. A dozen yellow, partly gritty foci. Slight necrosis in another gland. Cardiac, many yellow, one-eighth-inch, firm foci.

Diagnosis.— Tuberculosis.

(35) Variety, Devon. Age, 2 years. Sex, male.

Injection:

Time.	Temperature.
8.30 a. m.	104.2
11 a. m.	105.2

Lymphatics.— Post. mediastinal, four by one, completely filled with crowded yellowish, one-eighth inch foci. A second med., with one-half-inch foci. In small intestine, recent invagination, about a mass of one-half to three-fourths inch projecting into rumen of intestine. On section, necrotic, yellowish. R. lung, caudal lobe, three-fourths of an inch, cheesy focus, near bronchus. Liver, one-half-inch focus, cheesy.

Diagnosis.— Tuberculosis.

(36) Variety, Devon. Age, 2 years. Sex, male.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	105.2
11 a. m.	105.4

Lymphatics.— Retro-pharyngeal, both one by two inches, complete tubercular infiltration, with aneurisms centers of necrosis. Cardiac, two areas of infection about three-fourths inch each, with multiple, yellowish, partly softened, contents. R. lung, azygos lobe, one, one-fourth of an inch, soft, cheesy focus. Interstitial sclerosis of all of it.

Diagnosis.— Mild tuberculosis.

(37) Variety, Devon. Age, 1 year. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	105.4
11 a. m.	105.6

Lymphatics.— Right sub-maxillary, contains a one-fourth-inch gray focus, with yellow, necrotic lines. Intestinal, four glands, horse-chestnut size, large, cheesy-softened foci; also several smaller glands. Liver, six one-fourth-inch, sub-peritoneal foci, yellow, with necrotic centers:

Diagnosis.— Tuberculosis. (Food infection.)

(38) Variety, Devon. Age, 2 years. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	105.2
11 a. m.	104.8

Lymphatics.— Post. mediastinal, large gland completely converted into grayish, infiltrated tissue, interspersed with yellow, necrotic tissue. Other mediastinal and bronchial glands in the same condition. Lungs, in caudal lobes, two one-third-inch, grayish and yellow, necrotic foci.

Diagnosis.— Tuberculosis.

(39) Variety, Devon. Age, 2 years. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	101.6
11 a. m.	101.6
1.30 p. m.	101.2
3 p. m.	101.8

Uterus, with foetus three and a half months old.
Diagnosis.— (Not given.)

(40) Variety, Devon. Age, 1 year. Sex, female.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m	105.6
11 a. m	106.

Lymphatics.— Left retro-pharyngeal, with abscess one-half inch in diameter, soft. Post. mediastinal, two with one-fourth-inch foci each. Cardiac, two large, grayish foci, with yellow necrosis. Mesenteric, one three-fourths inch focus, like bronchial, one other egg size, mortar like. Center surrounded by necrotic, grayish tissue. A third smaller one in same condition. Portal, one one-eighth-inch, yellow focus, and few in another gland. L. lung, on cephalic lobe, a sub-pleural one by one-half inch, soft, cheesy focus. In caudal, a one-half inch, cheesy focus. Seven foci one-half to three-quarters of an inch diameter, chiefly under capsule, consisting of connective tissue, with necrotic, one-eighth yellow centers.
Diagnosis.— Tuberculosis.

(41) Variety, Devon. Age, 1 year. Sex, female.
Condition good.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m	103.8
11 a. m	103.6
1.30 p. m	104.1

Lymphatics.—Post. mediastinal, two small, yellow foci. Intestinal, mesenteric enlarged, several half-inch foci, mainly cheesy.
Diagnosis.— Tuberculosis. (Food infection.)

(42) Variety, Devon. Age, 2 years. Sex, female.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	101.6
11 a. m.	101.8
1.30 p. m.	101.4
3 p. m.	102.2

Uterus, with foetus three months old.
Diagnosis.— (Not given.)

(43) Variety, Devon. Age, 2 years. Sex, female.
Condition good.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	101.6
11 a. m.	101
1.30 p. m.	101.2
3 p. m.	101.4

Foetus four months old.
Diagnosis.—(Not given.)

(44) Variety, Devon. Age, 2 years. Sex, male.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	104.2
11 a. m.	104.4

Lymphatics.— R. sub-maxillary, retro-pharyngeal and prescapular, with hard, calcareous and cheesy focus each. Mediastinal, several, with cheesy and calcareous foci interspersed

throughout. Left bronchial with none. Intestinal, many nut size, with calcareous and cheesy foci. Omentum, with neoplastic growths. R. lung, with goose-egg size abscess.

Diagnosis.— Tuberculosis.

(45) Variety, Devon. Age, 1 year. Sex, female.

Condition small.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m	105.6
11 a. m	105

Lymphatics.— Intestinal, two glands large, containing a gritty, half-inch focus, surrounded by yellow, one-eighth of an inch, projecting foci. L. lung, caudal lobe, with one center of cheesy material, surrounded with pneumatic infiltration, and discharging into bronchius.

Diagnosis.— Tuberculosis. (Food infection. Air?)

(46) Variety, Devon. Age, 1 year. Sex, female.

Condition fair.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m	105.6
11 a. m	104.6

Lymphatics.—Retro-pharyngeal, both show highperplasia, with beginning necrosis. Post. mediastinal, one small, cheesy focus, diffuse. Intestinal, one mesenteric half an inch focus diameter, with scattering necrosis, and gritty center. One one by three-fourths inch, completely calcified. Another small, in same condition. Uterus, with foetus of two months.

Diagnosis.— Tuberculosis.

(47) Variety, Devon. Age, 2 years. Sex, male.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	101.6
11 a. m.	101.4
1.30 p. m.	101.4
3 p. m.	101.6

Diagnosis.—(Not given.)

(48) Variety, Devon. Age, 3 years. Sex, male.
Condition good.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	106
11 a. m.	105.6

Lymphatics.—Retro-pharyngeal, one one by three, other one by two, with soft, cheesy, central mass, and peripheral, isolated, one-eighth-inch foci. Post. mediastinal, one one-fourth of an inch, soft, yellow focus.
Diagnosis.—Tuberculous. (Food infection. Air?)

(49) Variety, Jersey. Age, 8 months. Sex, male.
Condition good.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	102.8
11 a. m.	103.1
1.30 p. m.	104.6

Lymphatics.— Pubic. gland contains a focus one-half by three-fourths of an inch in diameter, permeated by crowded, pale, necrotic center.

Diagnosis.— Tuberculosis. (Possibly food infection. Five months on place.)

(50) Variety. Devon. Age, 2 years. Sex, female.

Condition good.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	105
11 a. m.	105.6

Lymphatics.— Retro-pharyngeal, right, one yellow, one-fourth-inch focus. Left, two one and a quarter by one, contents soft, caseous, possibly gritty. Post. mediastinal, two contain few one-eighth to one-fourth yellow foci, still firm. Cardiac, one one-fourth-inch, partly necrotic, focus. R. lung, caudal lobe, with one inch mainly cheesy focus. Uterus, with foetus three months old.

Diagnosis.— Tuberculosis. (Infection, air? and food.)

(51) Variety, Devon. Age, 6 months. Sex, female.

Tuberculin experiment:

(Temperature before injection, not given.)

Injection:

Time.	Temperature.
8.30 a. m.	102.6
11 a. m.	102
1 p. m.	102.2

Diagnosis.—(Not given.)

(52) Variety, Devon. Age, 6 months. Sex, female.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	101.6
11 a. m.	101.6
1.30 p. m.	102

Diagnosis.— (Not given.)

(53) Variety, Devon. Age, 6 months. Sex, female.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	102.8
11 a. m.	101.6
1.30 p. m.	102.1

Mesenteric contains three or four foci, beginning of necrosis. Saved for examination.
Diagnosis.— Tuberculosis.

(54) Variety, Devon. Age, 6 months. Sex, female.
Tuberculin experiment:
(Temperature before injection, not given.)
Injection:

Time.	Temperature.
8.30 a. m.	101.8
11 a. m.	101.6
1.30 p. m.	101.8

Diagnosis.—(Not given.)

(55) Variety, Devon. Age, 4 months. Sex, male.
Tuberculin experiment:
(None.)
One mesenteric, with doubtful lesion (saved for examination).
Diagnosis.— Tuberculosis.

Remarks by inspector.—The herd was, in large part, grade Devon, if not full-blooded in many instances. Twenty years ago a thorough-bred Devon bull was bought in the eastern part of the State, and was the first to die about three years later of an unknown disease. In seventeen years, Mr. Dart says he has lost over 100 head, not including those which he sold and died on other farms. When the disease first attacked the herd, the animals attacked succumbed more rapidly than in recent years, thus indicating either an acquired immunity for the offspring, or a weakening of the vital force of the disease.

About fifteen years ago, this herd was visited by Dr. James Law, of Cornell University, then in the employ of the State, or Federal government, who, from the description of the disease, feared it might be contagious pleuro-pneumonia. Being convinced, by a post-mortem, of its true nature, there was nothing done to stay it, as neither State nor Federal government had made any appropriation relating to tuberculosis.

Mr. Dart, through all the years, endeavored to stay the disease by weeding out the worst cattle and slaughtering them. At one time, he fumigated for weeks with sulphur. Within the past few years he had hoped he had finally got rid of the disease, but his loss of six animals this last spring, with the presence of others, visibly diseased, made him give up in despair of ever heading it off. The results of the post-mortem examinations show how fruitless were his efforts:

The herd had been started forty-five years ago by his father and brother, falling into his hands after a few years. For twenty-eight years previous to the breaking out of the disease, there had been constant improvement in the stock, due to careful selection and breeding, until the owner was able to command good prices and obtain prizes for his Devon stock when exhibited at neighboring fairs. Even the present herd showed evidences of good breeding, and, although tuberculous, was not deficient in those qualities which please the eye of the buyer. "Splendid beef," remarked cattle buyers, when seeing them herded preparatory to slaughter.

One or two points regarding hygienic surroundings are worthy of notice. The manure dropped in the stables has for years been poked into an underlying cellar, and there allowed to accumulate until spring. The stable is not a close one, as it opens into a large hay-mow, partly filled with hay, and numerous cracks permit ingress of air.

The mangers, though separated by a low board, are practically continuous. The cows are, therefore, kept together stanchioned, while the heifers, steers and calves are kept separate, both in the pasture and in the barn. On account of this care and the agreeing post-mortem symptoms, there is scarcely a herd which shows better the danger to health from milk of these animals. Six affected yearlings and one eight-months bull calf, on the place not more than five months, could scarcely have been affected in any other way. The yearlings, being proportionately so much worse than the two-year-olds, show that, when they were being fed skim-milk, there were some animals giving tuberculous milk, while the year before there may have been very little given off.

Moreover, the two-year-olds seem to have more lung and thoracic, lymphatic infection, however this may have come about.

All the stock were condemned, because of the large percentage of infected animals, and the probability that the remaining might be affected.

DUTCHESS COUNTY.

Post-mortems.

Herd of John S. Gilbert. Hyde Park, May 27, 1893.

(1) Variety, Small White Spotted. Age, 6 years. Sex, female.

Tuberculin experiment showing temperature day before and day after injection:

Time.	Temperature.	
7 a. m., May 22.	May 23,	104.0
9 a. m.	102.1	106.0
11 a. m.	100.4	106.5
1 p. m.	101.2	106.1

Time.	Temperature.	
3 p. m.	101.3	106.3
5 p. m.	102.4	106.0
7 p. m.	102.3	106.3
9 p. m.	102.3	107.0
11 p. m.	102.3	105.2

Post-mortem showed left lung to be tuberculous; also, the mediastinal glands. There were two or three nodules in the right lung, a few tuberculous nodules on the omentum over the pouch.

(2) Variety, Registered Holstein. Age, ———. Sex, female.

Tuberculin experiment showing temperature day before and day after injection:

Time.	Temperature.	
7 a. m.	.....	104.2
9 a. m.	103.4	106.0
11 a. m.	102.3	104.3
1 p. m.	102.2	104.0
3 p. m.	103.3	102.3
5 p. m.	102.6	101.4
7 p. m.	102.1	101.4
9 p. m.	102.0	101.4
11 p. m.	102.3	103.3

Post-mortem showed three tuberculous nodules in liver.

(3) Variety, Small Brindle. Age, 10 years. Sex, female.

Tuberculin experiment showing temperature day before and day after injection:

Time.	Temperature.	
7 a. m.	.....	101.3
9 a. m.	102.0	102.1
11 a. m.	102.0	104.1
1 p. m.	101.0	106.2
	101.3	107.0
	101.3	105.4
	102.2	104.4
	101.3	104.3
	101.0	103.2

Post-mortem showed all mediastinal glands swollen and containing numerous foci of cheesy, calcereous matter. In the posterior part of both lungs were several tuberculous tumors the size of clenched fists. In the liver were several small, tuberculous nodules.

(4) Variety, Jersey. Age, 5 years. Sex, female.

Tuberculin experiment day before and day after injection:

Time.		Temperature.
7 a. m.	.....	104.0
9 a. m.	102.0	104.4
11 a. m.	101.6	104.4
1 p. m.	101.4	106.0
	103.0	104.0
	102.1	104.3
	102.3	103.3
	103.1	104.0
	103.0	103.4

Post-mortem showed a few tuberculous spots on liver, mediastinal glands small and tuberculous. Small tubercles on left lung.

(5) Variety, Jersey. Age, 5 years. Sex, female.

Tuberculin experiment day before and day after injection:

Time.		Temperature.
7 a. m.	.....	104.2
9 a. m.	103.4	106.0
11 a. m.	102.4	104.3
1 p. m.	104.0	105.3
	105.3	105.0
	106.0	105.0
	105.0	104.2
	105.1	104.3

Glands in head all right. Numerous spots on membrane over liver.

(6) Variety, ———. Age, 9 years. Sex, female.

Tuberculin experiment day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.1
9 a. m.	102.1	103.0
11 a. m.	100.0	105.0
1 p. m.	101.1	106.0
	101.2	106.2
	102.0	107.0
	102.0	105.4
	101.1	105.0
	100.4	105.2

All mediastinal glands tuberculous, containing a caseous material. A tubercle in post lobe of right lung.

(7) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	104.4
9 a. m.	103.0	106.2
11 a. m.	102.0	105.2
	101.4	106.1
	101.3	106.3
	101.4	105.4
	101.4	105.2
	101.3	105.2
	101.4	104.3

Post-mortem showed posterior mediastinal glands tuberculous, containing numerous foci. Gland, size of hen's egg. Spots on posterior lobe of left lung. A large mass in the right lung.

A little deposit on the ribs of both sides. Two or three nodules on the liver. Liver a little indurated.

(8) Variety, ———. Age, 12 years. Sex, ———.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	103.3
9 a. m.	101.2	105.1
11 a. m.	99.3	103.3
1 p. m.	100.0	104.3
	101.3	105.0
	102.3	104.3
	101.4	104.3
	102.0	104.2

Very much emaciated. Post-mortem showed general tuberculosis. Liver, lungs, spleen, mesentery, pleura, all affected. Kidney, anaemic.

(9) Variety, ———. Age, 12 years. Sex, ———.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.1
9 a. m.	101.4	102.0
11 a. m.	100.3	104.0
1 p. m.	100.4	105.2
	101.2	105.1
	103.0	104.4
	102.0	104.3
	101.3	104.3
	101.1	104.1

A deposit on ribs of both sides. In the pouch were found hay, pieces of wire, nails, and such foreign substances.

(10) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.0
9 a. m.	101.3	102.0
11 a. m.	100.0	103.2
1 p. m.	100.3	105.1
	102.0	106.0
	102.0	104.3
	101.0	104.0
	101.2	103.0
	101.3	102.2

In right retro-pharyngeal gland, a single focus, the size of a pea. Mediastinal glands swollen, containing tuberculous deposits. Tuberculous tumors in the middle and post lobe of right lung, size of clenched fists. On the pleural surface of right lung were numerous tuberculous formations of recent origin, the size of a bean, scattered, and in clusters. On corresponding side of pleura was a collection of small tubercles two inches high.

(11) Variety, ———. Age, 9 years. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature
7 a. m.	.....	101.3
9 a. m.	102.2	102.2
11 a. m.	100.3	102.0
1 p. m.	101.0	106.0
	100.0	105.3
	100.3	105.3
	101.4	105.1
	102.0	103.1
	101.3	103.1

Mediastinal glands tuberculous. Cysts in kidney.

(12) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature
7 a. m	.....	102.3
9 a. m	102.2	104.3
11 a. m	101.0	105.4
1 p. m	102.0	107.0
	101.3	106.3
	101.0	105.4
	101.0	104.0
	101.4	103.0
	101.0	102.3

Small deposit starting in right lung. Considerable in the posterior lobe of left lung.

(13) Variety, Jersey. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m	.....	103.0
9 a. m	101.4	105.3
11 a. m	100.2	105.4
1 p. m	102.1	106.4
	101.4	106.1
	102.2	105.2
	102.1	105.0
	102.3	105.0
	101.4	104.1

General tuberculosis shown by the post-mortem. Both retro-pharyngeal glands swollen, containing several deposits of caseous substance. Tubercles in mesentery. Hydrc-nephritis of kidney. Mediastinal glands ten inches long and four inches thick, containing deposits of different sizes and dates. Diffused

tubercular pleuritis. Numerous and immense tuberculous tumors in lungs. Diffused tubercular peritonitis, coloring all the organs.

(14) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m	.....	101.4
9 a. m	100.4	101.3
11 a. m	101.4	99.3
1 p. m	101.0	101.3
	101.3	103.0
	101.2	105.0
	101.0	105.0
	101.2	106.1
	101.2	105.0

Front teeth gone. All others loose and ready to fall out. Post-mortem showed tubercle in anterior part of right lung. Two in post. lobe of left lung, each containing cheesy substance.

(15) Variety, ———. Age, 7 years. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7.30 a. m	.....	102.2
9 a. m	102.2	103.0
11 a. m	100.4	103.2
1 p. m	101.1	106.0
	101.2	106.1
	101.4	105.4
	102.0	104.2
	102.0	105.1
	101.4	104.4

All mediastinal glands affected. Two cardiac glands as large as goose eggs. Anterior lobe of left lung filled with tubercles of recent origin. Tumor in middle lobe the size of hen's egg.

(16) Variety, ———. Age, ———. Sex, ———.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.1
9 a. m.	100.1	101.2
11 a. m.	100.0	102.3
1 p. m.	100.0	104.2
	101.2	105.0
	101.3	105.3
	101.4	105.0
	102.0	103.3
	101.1	103.0

Glands in head all right. Mediastinal glands affected. Liver speckled with numerous tuberculous spots.

(17) Variety, half Holstein. Age, 30 months. Sex, ———.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	101.3
9 a. m.	101.0	103.2
11 a. m.	101.3	106.2
1 p. m.	102.0	106.3
	101.4	104.4
	102.2	103.2
	102.1	103.1
	102.0	104.3
	102.0	105.0

Numerous recent tubercles gathered in clusters on peritoneum. Mediastinal gland six inches long, three inches wide, filled with

hard, old formed tuberculous material. Posterior lobe of each lung affected. Small roughness beginning on the side of ribs.

(18) Variety, ———. Age, 12 years. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.4
9 a. m.	100.3	103.2
11 a. m.	100.1	104.2
1 p. m.	101.2	106.2
	101.2	106.3
	101.3	104.3
	102.0	105.2
	102.2	105.0
	101.2	104.4

Right retro-pharyngeal gland swollen and containing cheesy and calcareous matter.

(19) Variety, ———. Age, ———. Sex, ———.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	104.1
9 a. m.	100.3	106.3
11 a. m.	101.2	106.4
1 p. m.	101.0	106.1
	102.0	105.3
	101.2	106.0
	101.4	104.4
	102.0	104.1
	100.4	104.2

Post-mortem showed tubercular deposit on the posterior external margin of the right lung; small spot on liver. Anterior portion of posterior lobe of left lung, a nodule the size of a pea.

(20) Variety, ———. Age, 30 months. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	104.0
9 a. m.	102.0	106.0
11 a. m.	103.0	106.0
1 p. m.	102.3	106.0
	103.2	106.0
	103.3	106.0
	103.1	105.0
	103.4	104.0
	102.1	103.3

Post-mortem showed left retro-pharyngeal gland, swollen size of English walnut, containing numerous, small tuberculous foci. Tuberculous deposit in post. lobe of right lung. Deposit of minute tubercles on side of ribs. Posterior face of left lung, newly affected.

(21) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.2
9 a. m.	101.2	101.3
11 a. m.	102.0	102.8
1 p. m.	101.3	105.2
	102.0	105.0
	102.0	105.0
	102.0	104.0
	102.0	103.1
	102.0	103.0

Post-mortem showed cardiac gland tuberculous, filled with hard, old-formed tuberculous substance. In the middle lobe of right lung was a fresh tuberculous tumor, size of hen's egg.

(22) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.2
9 a. m.	101.3	104.2
11 a. m.	101.4	106.1
1 p. m.	102.1	106.0
	102.2	105.0
	102.4	105.0
	102.3	106.1
	102.2	106.0
	102.0	105.2

Post-mortem showed sub-maxillary gland, very cheesy and swollen. Lungs, anaemic. Liver, highly affected with tuberculosis. A few nodules in right lung. Posterior mediastinal gland, slightly tuberculous. Tubercles in spleen.

(23) Variety, Holstein. Age, 2 years. Sex, male.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	100.4
9 a. m.	101.3	101.1
11 a. m.	100.4	105.4
1 p. m.	100.3	104.4
	100.4	104.2
	101.0	104.4
	101.1	103.4
	101.1	104.1
	101.0	102.3

Post-mortem showed left retro-pharyngeal gland, size of small hen's egg, filled with cheesy pus.

(24) Variety, Half Holstein. Age, 30 months. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	103.3
9 a. m.	101.3	101.2
11 a. m.	101.0	101.1
1 p. m.	101.0	102.3
	102.1	104.3
	101.0	105.2
	102.0	106.1
	102.3	105.0
	101.3	104.1

Post-mortem showed numerous nodules on small intestines and rumen.

(25) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	101.2
9 a. m.	102.0	106.0
11 a. m.	101.3	107.0
1 p. m.	101.0	106.2
	102.2	106.0
	101.4	106.0
	102.0	106.0
	102.1	105.1
	101.2	104.2

Post-mortem showed retro-pharyngeal gland, swollen to size five inches long three inches wide. Tubercle in post. part of right lung. Post. mediastinal, slightly tuberculous. A little deposit in left lung.

(26) Variety, ———. Age, 30 months. Sex, female.

Tuberculin experiment. Temperature day before and day after:

Time.	Temperature.	
7 a. m.	.....	101.0
9 a. m.	100.3	102.3
11 p. m.	101.2	104.0
1 p. m.	101.2	105.2
	101.1	105.0
	101.4	105.2
	102.1	105.3
	102.3	104.3
	101.3	104.4

Post-mortem showed two post. mediastinal glands slightly affected; post. part of right lung affected with fresh tuberculosis.

(27) Variety, Holstein. Age, 30 months. Sex, female.

Tuberculin experiment. Temperature day before and day after:

Time.	Temperature.	
7 a. m.	.....	101.0
9 a. m.	102.1	103.0
11 a. m.	101.4	104.0
1 p. m.	101.2	105.1
	101.3	105.3
	101.4	105.0
	101.3	105.0
	101.3	103.4
	101.3	103.1

Post-mortem showed general tuberculosis. Liver, lung, spleen, omentum horribly affected with tuberculosis. Large numbers of groups of tubercles on side of ribs. Mesentery, lymphatics badly affected. Right retro-pharyngeal, the size of goose egg. Diffused tuberculosis in thoracic and abdominal cavities, involving all organs.

(28) Variety, Holstein. Age, 30 months. Sex, female.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	102.4
9 a. m.	102.0	104.0
11 a. m.	101.4	105.3
1 p. m.	101.3	106.0
	102.2	106.3
	102.3	106.1
	102.4	106.1
	103.0	104.1
	103.0	104.3

Post-mortem showed post mediastinal gland, swollen and containing numerous tubercles fresh. Hemorrhage of heart. Several small nodules on liver.

(29) Variety, Reg. Holstein. Age, ———. Sex, male.

Tuberculin experiment. Temperature day before and day after injection:

Time.		Temperature.
7 a. m.	.....	101.3
9 a. m.	101.4	105.0
11 a. m.	101.3	106.2
1 p. m.	101.2	106.3
	101.2	106.0
	102.0	106.2
	101.4	106.2
	101.3	106.1
	101.2	105.1

Post-mortem showed right submaxillary, size of large hen's egg; all mediastinal glands, affected; both lungs, very bad; a little fibrous, tuberculous deposit on pleura. One or two small spots on liver. Liver, slightly indurated. Mesentery glands, a little swollen.

(30) Variety, ———. Age, ———. Sex, ———.

Tubercular experiment not given.

Post-mortem showed right retro-pharyngeal gland, size of goose egg, filled with a cheesy material. All mediastinal glands, affected; also right lung.

Herd of Eugene Ham. Verbank, August 15, 1893.

(1) Variety, Guernsey, Reg. Age, ——— Sex, male.

Post-mortem showed general tuberculosis.

(2) Variety, Reg. Ayrshire. Age, ———. Sex, ———.

Post-mortem showed right retro-pharyngeal gland, swollen to size of clenched fist, contents caseous and of old formation. Both lungs affected. Cheesy tubercles in the liver.

(3) Variety, Reg. Ayrshire. Age, ———. Sex, ———.

Post-mortem showed left retro-pharyngeal, slightly swollen, containing tuberculous deposits. Left lung, contained four tubercles of the size of between a hazelnut and walnut, in incipient state.

Herd of Misses A. and E. Gill. Camelot, August 17, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed tubercular deposits in both lungs and on both sides of ribs.

Herd of James Scott. Poughkeepsie, August 30, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed right lung, lower portion, to be one mass of tubercles, left lung, with tubercles, contents, caseous; left retro-pharyngeal gland, size of goose egg, contents caseous; right retro. very large, contents cheesy (four and a half by six inches).

Herd of James Dumphy. Hyde Park, August 30, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed liver, affected with tubercles, right retro-pharyngeal, size of goose egg and contents chessy; left, size of double fist; left lung anaemic and atrophied to one-quarter normal size.

Herd of A. W. Sleight. La Grange, September 6, 1893.

(1) Variety, ———. Age, ———. Sex, female.

Post-mortem showed lungs atrophied, tubercular spots on liver and tubercles in spleen.

(2) Variety, ———. Age, ———. Sex, female.

Tubercular deposits on side of ribs; lungs, affected, liver, and spleen, spotted; tubercles in mesentery.

Herd of John G. Duncan. Poughkeepsie, September 8, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed spleen, liver and both lungs, a mass of tubercles of various sizes; left posterior of udder, a mass of tubercles.

Herd of H. N. Bain. Poughkeepsie, September 13, 1893.

(1) Variety, ———. Age, ———. Sex, female.

Post-mortem showed general tuberculosis, the whole thoracic filled with tubercles from small size to four to six inches. Liver and spleen, tuberculous; mesentery, affected.

(2) Variety, ———. Age, ———. Sex, female.

Post-mortem showed six tubercles, from a hazelnut to a hen's egg in size; right lung, with numerous tubercles. Acute form. Liver, spotted. Both retro-pharyngeal glands, affected.

Herd of Tobias Foust. Poughkeepsie, September 29, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed left lung, anaemic and large atrophied. Right lung, with tubercles of various sizes; liver, badly affected; tubercular arthritis of hip joint.

Herd of S. B. Doughty. Wappingers, November 21, 1893.

Variety, Holstein grade. Age, 6 years. Sex, female.

Post-mortem showed retro-pharyngeal, lymphatics enlarged; small tubercles on liver and spleen.

Diagnosis.— Tuberculosis.

Herd of E. N. Howell. Poughkeepsie, November 13, 1893.

(1) Variety, Guernsey. Age, 3 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	104.0
10.30 p. m., Injection:	———
6 a. m.	103.2
8 a. m.	106.8
11 a. m.	106.0
1 p. m.	105.0
3 p. m.	104.0

Retro-pharyngeal lymphatics, had no lesions, prescapular, pregenal and inguinal, no lesions. Post. mediastinal, very large, caseous matter. Anterior mediastinal, slightly enlarged, caseous matter. Cardiac, very large, caseous matter. No lesion on trachea. R. lung, one mass of tubercles, containing caseous matter. L. lung, same as right lung. Numerous tubercles on liver and spleen, containing caseous matter.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	102.75
10.30 p. m., Injection	101.00
6 a. m.	104.00
8 a. m.	106.50
10 a. m.	108.00
2 p. m.	106.75
4 p. m.	103.00

Lymphatics, retro-pharyngeal, post. and anterior mediastinal, enlarged. Serous membranes. Diaphragmatic, abdominal side, covered with tubercles. Abdominal walls, with a few tubercles.

Mesenteries, with a few tubercles. Omentum, covered with tubercles. Liver, covered with tubercles; also spleen.

Diagnosis.— Tuberculosis.

(3 Variety, Native. Age, 6 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	102.50
10.30 p. m., Injection	101.00
6 a. m.	102.50
8 a. m.	104.50
10 a. m.	107.00
2 p. m.	106.00
4 p. m.	104.75

Lymphatics.— Retro-pharyngeal, enlarged, post. mediastinal, slightly enlarged, caseous; ant. mediastinal, very much enlarged. R. lung, with numerous tubercles, containing caseous matter, size from hazelnut to child's head. L. lung, same as right lung. Spleen, covered with tubercles. Mammae, about fifty tubercles from a pigeon's egg to a hazelnut in size.

Diagnosis.— Tuberculosis.

(4) Variety, Native. Age, 5 years. Sex, female. November twenty-seventh.

Condition, very good.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	102.60
10.30 p. m., Injection	101.00
6 a. m.	102.00
8 a. m.	103.25
10 a. m.	105.75
2 p. m.	106.00
4 p. m.	104.50

Lymphatics.— Post. mediastinal, enlarged, containing caseous matter. Mesenteries, had numerous small tubercles. Spleen, also had small tubercles.

Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, 3 years. Sex, female. November twenty-seventh.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	103.00
10.30 p. m., Injection	103.00
6 a. m.	103.00
8 a. m.	105.50
10 a. m.	106.25
2 p. m.	104.75
4 p. m.	103.50

Lymphatics.— Ant. mediastinal, enlarged, containing caseous matter. Several small tubercles containing caseous matter, on left lung. Mass of small tubercles on mamae.

Diagnosis.— Tuberculosis.

Herd of Levi P. Morton. Rhinebeck, November 10, 1893.

(1) Variety, Guernsey. Age, 6 years. Sex, female.

Condition good.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	101.5
6 p. m., Injection	101.5
2 a. m.	102.0
4 a. m.	104.5
6 a. m.	105.0
8 a. m.	105.5
10 a. m.	105.0

Lymphatics.— Retro-pharyngeal, and post. mediastinal, caseous and enlarged. Thoracic side of diaphragmatic serous mem-

brane, small tubercles. Five small, caseous tubercles on right lung, and three on left. Liver and spleen, had small tubercles.

Diagnosis.— Tuberculosis.

(2) Variety, Guernsey. Age, 4 years. Sex, female. January 17, 1894.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.0
5 a. m.	102.6
7 a. m.	105.6
11 a. m.	106.3
1 p. m.	105.5
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, enlarged and caseous. Serous membranes. Diaphragmatic, thoracic side, covered with tubercles. Tubercles on both lungs, liver and spleen.

Diagnosis.— Tuberculosis.

(3) Variety, Guernsey. Age, 2 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	103.0
10 a. m., Injection	103.2
5 a. m.	104.0
7 a. m.	103.5
11 a. m.	105.4
1 p. m.	106.0
3 p. m.	104.5

Serous membranes.— Diaphragmatic, thoracic side, covered with tubercles. Tubercles on right and left lung, and on liver.

Diagnosis.— Tuberculosis.

(4) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.5
5 a. m.	101.5
7 a. m.	102.0
11 a. m.	102.1
1 p. m.	104.2
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, enlarged and caseous.
Liver, covered with tubercules.
Diagnosis.— Tuberculosis.

(5) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.8
5 a. m.	101.5
7 a. m.	103.8
11 a. m.	105.6
1 p. m.	106.8
3 p. m.	104.0

Lymphatics.— Post. and ant. mediastinal, caseous and enlarged.
Tubercles on liver.
Diagnosis.— Tuberculosis.

(6) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.	
5 p. m.	101.4	101.0
10 p. m., Injection	101.8	101.3
5 p. m.	101.0	101.2

Time.	Temperature.	
7 p. m.	101.4	102.0
11 p. m.	101.1	102.0
1 p. m.	101.8	101.0
3 p. m.	101.4	101.0

Post-mortem showed no lesions.

(7) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	102.0
5 a. m.	105.6
7 a. m.	106.6
11 a. m.	105.8
1 p. m.	106.2
3 p. m.	105.9

Lymphatics.—Post. and ant. mediastinal, enlarged and caseous.
Tubercles on left lung and liver. Spleen, spotted.
Diagnosis.—Tuberculosis.

(8) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.6
10 p. m., Injection	101.6
5 a. m.	101.4
7 a. m.	102.0
11 a. m.	102.6
1 p. m.	103.5
3 p. m.	104.5
5 p. m.	105.0
7 p. m.	105.3

Lymphatics.—Post. and ant. mediastinal, enlarged and caseous. Tubercles on right lung, liver and spleen.

Diagnosis.— Tuberculosis.

(9) Variety, Guernsey. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.4
10 p. m., Injection	101.6
5 a. m.	102.6
7 a. m.	105.0
11 a. m.	106.2
1 p. m.	106.5
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, enlarged and caseous. Tubercles on right and left lung.

Diagnosis.— Tuberculosis.

(10) Variety, Guernsey. Age, 8 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.5
5 a. m.	101.6
7 a. m.	104.2
11 a. m.	106.2
1 p. m.	106.8
3 p. m.	105.8

Lymphatics.— Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Liver and spleen tuberculous.

Diagnosis.— Tuberculosis.

(11) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.6
10 p. m., Injection	103.0
5 a. m.	105.5
7 a. m.	104.5
11 a. m.	105.4
1 p. m.	104.8
3 p. m.	104.0

Lymphatics.—Post. mediastinal, enlarged and caseous. Right and left lungs and liver tuberculous.
Diagnosis.—Tuberculosis.

(12) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.2
10 p. m., Injection	102.0
5 a. m.	103.8
7 a. m.	105.0
11 a. m.	105.2
1 p. m.	105.0
3 p. m.	103.2

Lymphatics.—Post. mediastinal, ant. mediastinal, and cardiac, tuberculous. Both lungs, liver and spleen tuberculous.
Diagnosis.—Tuberculosis.

(13) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.6
10 p. m., Injection	101.4
5 a. m.	104.0

Time.	Temperature.
7 a. m.	105.8
11 a. m.	105.7
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Post. mediastinal, very large and caseous. Liver, spotted. Uterus, very caseous.

Diagnosis.— Tuberculosis.

(14) Variety, Guernsey. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.2
10 p. m., Injection	102.2
5 a. m.	105.0
7 a. m.	106.0
11 a. m.	105.6
1 p. m.	105.0
3 p. m.	104.8

Lymphatics.—Post. mediastinal, ant. mediastinal and cardiac, tuberculous. Serous membranes. Diaphragmatic, abdominal side, tuberculous. Omentum, covered. Right and left lung, full of tubercles, also liver. Spleen, spotted.

Diagnosis.— General tuberculosis.

(15) Variety, Guernsey. Age, 2 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.6
10 p. m., Injection	102.6
5 a. m.	105.1
7 a. m.	106.0
11 a. m.	106.2
1 p. m.	105.8
3 p. m.	105.0

Serous membranes.— Abdominal walls, tubercles. Right and left lungs, liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(16) Variety, Guernsey. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.2
10 p. m., Injection	103.0
5 a. m.	105.5
7 a. m.	102.8
11 a. m.	106.6
1 p. m.	106.2
3 p. m.	105.9

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(17) Variety, Guernsey. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.8
10 p. m., Injection	101.1
5 a. m.	106.0
7 a. m.	106.5
11 a. m.	106.5
1 p. m.	105.2
3 p. m.	106.0

Lymphatics.— Post. and ant. mediastinal and cardiac, tuberculous. Serous membranes. R. costal and L. costal, tuberculous. Diaphragmatic, thoracic side, tuberculous. Right and left lung and liver, tuberculous. Spleen, spotted.

Diagnosis.— General tuberculosis.

(18) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.9
10 p. m., Injection	101.4
5 a. m.	101.4
7 a. m.	103.0
11 a. m.	104.1
1 p. m.	104.8
3 p. m.	103.8

Lymphatics.—Post. and ant. mediastinal, enlarged and caseous. Serous membranes. R. and L. costal, diaphragmatic thoracic, and abdominal sides, covered with tubercles. Omentum, covered with tubercles. Right and left lungs, badly tuberculous.

Diagnosis.—General tuberculosis.

(19) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.9
5 a. m.	102.0
7 a. m.	106.2
11 a. m.	106.4
1 p. m.	105.4
3 p. m.	104.0

Lymphatics.—Post. mediastinal, very large and caseous. Left lung, badly tuberculous.

Diagnosis.—Tuberculosis.

(20) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time	Temperature.	
5 p. m.	101.6	101.7
10 p. m., Injection	102.0	101.7
5 a. m.	101.5	103.0
7 a. m.	102.2	105.0
11 a. m.	103.0	106.2
1 p. m.	102.5	106.4
3 p. m.	103.0	106.0

Serous membranes.—R. costal and L. costal, tuberculous. Spleen, spotted.
Diagnosis.—Tuberculosis.

(21) Variety, Guernsey. Age, 4 years. Sex, male. February 24, 1894.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.5
5 a. m.	102.1
7 a. m.	104.0
11 a. m.	105.3
1 p. m.	107.0
3 p. m.	106.6

Lymphatics.—Post. and ant. mediastinal, tuberculous. Both lungs, liver and spleen, tuberculous.
Diagnosis.—Tuberculosis.

Herd of Harvey Van De Water. Hackensack, November 25, 1893.
Variety, Native. Age, 3 years. Sex, female.
Condition, very poor.

Post-mortem showed Lymphatics, retro-pharyngeal, enlarged, with caseous matter. Numerous tubercles on mammae.

Diagnosis.— Tuberculosis.

Herd of Wm. Herrick. Salt Point, November 24, 1893.

Variety, Jersey. Age, 9 years. Sex, female.

Condition, poor.

Post-mortem showed: Lymphatics, retro-pharyngeal, very large, Serous membranes. Small tubercles on R. and L. pulmonary and on R. and L. costal. Small tubercles on liver and spleen.

Diagnosis.— Tuberculosis.

Herd of Robert N. Titus. La Grange, December 8, 1893.

Variety, Holstein. Age, ———. Sex, female.

Condition, poor.

Post-mortem showed: Lymphatics, post. and ant. mediastinal, very large and caseous. R. lung, with about fifty tubercles, very caseous, lower anterior lobe. L. lung, with about fifty tubercles, anterior lobe. Liver, with numerous tubercles.

Diagnosis.— Tuberculosis.

Herd of N. J. Yeomans. Mooers Mills, December 14, 1893.

Variety, Holstein. Age, ———. Sex, female.

Condition, poor.

Post-mortem showed: Lymphatics, post. and ant. enlarged and caseous. Serous membranes. Abdominal walls, covered with tubercles. Mesenteries, do. Right and left lungs, one mass of tubercles.

Diagnosis.— Tuberculosis.

Herd of Ed. J. A. Velie. Mooers Mills, December 14, 1893.

Variety, Alderney. Age, 4 years. Sex, female.

Condition, poor.

Post-mortem showed: Lymphatics, retro-pharyngeal, post. mediastinal, caseous and very large. A few tubercles on right and left lung and liver.

Diagnosis.— Tuberculosis.

(2) Variety, Holstein grade. Age, 6 years. Sex, female. Condition, poor.

Post-mortem showed: Lymphatics, post. and ant. mediastinal, very large and caseous. Right and left lungs, a mass of tubercles. A few tubercles on liver and spleen. Tubercle on uterus.

Diagnosis.— Tuberculosis.

Herd of Sam. Verplank. Fishkill, December 27, 1893.

(1) Variety, Guernsey. Age, ———. Sex, female. Condition, fair.

Post-mortem showed: Lymphatics, retro-pharyngeal, enlarged and caseous. Post. and ant. mediastinal, enlarged and very caseous. Mesenteries and omentum, covered with miliary tubercles. Right and left lungs, with diffused tuberculosis. Liver and spleen, with tubercles on surface. Uterus membrane, covered with tubercles.

Diagnosis.— Tuberculosis.

(2) Variety, Guernsey. Age, ———. Sex, female. Condition, fair.

Post-mortem showed: Lymphatics, post. and ant. mediastinal, very large and caseous, old formation. Serous membranes. Mesenteries and omentum, covered with tubercles. R. and L. lungs, with diffuse tuberculosis. Spleen, covered with tubercles.

Diagnosis.— Tuberculosis.

(3) Variety, Native. Age, ———. Sex, female. Condition, good.

Post-mortem showed: Lymphatics, retro-pharyngeal, enlarged. Tubercles in right and left lungs. Mammae, enlarged and indurated.

Diagnosis.— Tuberculosis.

(4) Variety, Guernsey. Age, ———. Sex, female. Condition, fair.

Post-mortem showed: Lymphatics, retro-pharyngeal, enlarged. Right and left lungs, with tubercles of various sizes, scattered.

Diagnosis.— Tuberculosis.

(5) Variety, Guernsey. Age, ———. Sex, female.
Condition, fair.

Lymphatics.—Retro-pharyngeal, enlarged. Post. and ant. mediastinal, caseous, old form. Serous membranes. R. and L. costal, covered with tubercles. Mesenteries and omentum, with miliary tubercles. Right lung, completely filled with one tuberculous mass. Left lung, anterior lobe, one mass of tubercles.

Diagnosis.—Tuberculosis.

Herd of Vassar College. Poughkeepsie, December 8, 1893.

(1) Variety, ———. Age, ———. Sex, ———.
Condition ———.

Post-mortem showed: Serous membranes.—R. pulmonary and R. costal, inflamed; diaphragmatic, thoracic side, fractured rib, old standing. R. lung, old case of pneumonia, just recovering.

Diagnosis.—Pneumonia of old standing.

(2) Variety, ———. Age, 8 years. Sex, female.
Condition, fair.

Post-mortem showed: Serous membranes.—Mesenteries, had scattered miliary tubercles. R. lung, had numerous tubercles about the size of walnut.

Diagnosis.—Tuberculosis.

Herd of Robert Worthington. Tivoli, January 6, 1894.

Variety, Jersey. Age, 3 years. Sex, female.
Condition, fair.

Post-mortem showed a few tubercles on right lung and small tubercles on liver and mammae.

Diagnosis.—Tuberculosis.

Herd of J. B. and M. E. Smith. Pleasant Valley, January 5, 1894.

(1) Variety, Jersey Grade. Age, 4 years. Sex, female.
Condition, poor.

Post-mortem showed: Lymphatics.—Post. and ant. mediastinal, enlarged, tuberculous. Serous membranes. R. costal, covered with small tubercles. Diaphragmatic, thoracic side, cov-

ered with tubercles; also omentum. Right and left lung, full of tubercles; liver, contained a few.

Diagnosis.— Tuberculosis.

(2) Variety, Holstein Grade. Age, 4 years. Sex, female.

Condition, fair.

Post-mortem showed: Serous membranes.— R. pulmonary, covered with tubercles. Diaphragmatic, thoracic side, covered with tubercles. Right and left lungs, filled with tubercles. Liver, covered with small tubercles.

Diagnosis.— Tuberculosis.

Herd of Edward Furman. Pleasant Valley, January 5, 1894.

Variety, Jersey. Age, 5 years. Sex, female.

Condition, fair.

Post-mortem showed: Serous membranes.— R. pulmonary, covered with tubercles. Pericardium and R. costal, estensively covered with tubercles. R. lung, entirely filled with tubercles. L lung and liver, had a few tubercles.

Diagnosis.— Tuberculosis.

Herd of P. L. Van Wagner. T. Poughkeepsie, January 5, 1894.

(1) Variety, Holstein. Age, 6 years. Sex, female.

Condition, poor.

Post-mortem showed: Serous membranes.—R. costal, L. costal, diaphragmatic, thoracic side, and omentum, covered with tubercles. Right and left lungs, were filled with tubercles. Liver and spleen covered with tubercles.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Post-mortem showed: Right lung, with a few large tubercles and liver covered with tubercles.

Diagnosis.— Tuberculosis.

(3) Variety, Native. Age, 9 years. Sex, female.

Condition very poor.

Lymphatics.— Post. and ant. mediastinal, enlarged and tuberculous. Right and left lungs, filled with tubercles, and liver, covered with tubercles.

Diagnosis.— Tuberculosis.

(4) Variety, ———. Age, ———. Sex, female. January 15, 1894.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	102.5
10 p. m., Injection	101.6
5 a. m.	105.0
7 a. m.	106.0
11 a. m.	107.0
1 p. m.	107.0
3 p. m.	106.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. R. and L. lungs, tuberculous.

Diagnosis.— Tuberculosis.

(5) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	100.0
5 a. m.	105.5
7 a. m.	102.0
11 a. m.	104.0
1 p. m.	104.5
3 p. m.	104.5

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right lung and liver, tuberculous.

Diagnosis.— Tuberculosis.

(6) Variety, ———. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.8
10 p. m., Injection	100.0
5 a. m.	101.0
7 a. m.	101.8
11 a. m.	100.0
1 p. m.	103.0
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right lung and liver, tuberculous.
Diagnosis.

(7) Variety, ———. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.0
5 a. m.	100.0
7 a. m.	102.0
11 a. m.	103.3
1 p. m.	106.0
3 p. m.	105.0

Post. and ant. mediastinal, tuberculous; also liver.
Diagnosis.— Tuberculosis.

(8) Variety, ———. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	100.5
5 a. m.	100.6

Time.	Temperature.
7 a. m.	103.0
11 a. m.	107.2
1 p. m.	106.0
3 p. m.	105.5

Lymphatics.—Post. and ant. mediastinal, tuberculous; also right lung.

Diagnosis.—Tuberculosis.

(9) Variety, ———. Age, ———. Sex, female.

Condition good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.0
5 a. m.	100.0
7 p. m.	101.5
11 a. m.	101.6
1 p. m.	103.0
3 p. m.	104.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Liver, tuberculous.

Diagnosis.—Tuberculosis.

(10) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	100.6
5 a. m.	101.3
7 a. m.	101.8
11 a. m.	103.3
1 p. m.	104.5
3 p. m.	104.7

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lung, tuberculous..

Diagnosis.— Tuberculosis.

(11) Variety, ———. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.0
5 a. m.	101.0
7 a. m.	101.5
11 a. m.	102.5
1 p. m.	106.0
3 p. m.	106.1

Lymphatics.— Post. and ant. mediastinal, tuberculous. A few tubercles on right lung.

Diagnosis.— Tuberculosis.

(12) Variety, ———. Age, ———. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	99.0
5 a. m.	100.0
7 a. m.	101.5
11 p. m.	102.5
1 p. m.	103.0
3 p. m.	104.1

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(13) Variety, ———. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.0
5 a. m.	101.0
7 a. m.	103.1
11 a. m.	103.3
1 p. m.	104.0
3 p. m.	104.3

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes.— Tubercles on R. and L. costal and diaphragmatic, thoracic side. Tubercles on right and left lungs and on liver.
Diagnosis.— Tuberculosis.

(14) Variety, ———. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101 —
10 p. m., Injection	101 —
5 a. m.	101 —
7 a. m.	102 —
11 a. m.	103 —
1 p. m.	103 —
3 p. m.	103 —

Lymphatics.— Post. and ant. mediastinal, tuberculous.
Diagnosis.— Tuberculosis.

(15) Variety, ———. Age, ———. Sex, female.
Condition fair.
Tuberculin experiment:

Time.	Temperatu
5 p. m.	101
10 p. m., Injection	101 —
5 a. m.	101 —

Time.	Temperature.
7 a. m.	100.0
11 a. m.	102.3
1 p. m.	105.3
3 p. m.	106.0

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Serous membranes.—R. costal, covered with tubercles. Right lung, with bad tubercles. Tubercles on left lung, liver and spleen.

Diagnosis.—Tuberculosis.

(16) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.0
5 a. m.	101.2
7 a. m.	101.8
11 a. m.	103.0
1 p. m.	104.5
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Tubercles on right lung.

Diagnosis.—Tuberculosis.

(17) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.3
5 a. m.	101.0
7 a. m.	103.8
11 a. m.	103.0
1 p. m.	105.0
3 p. m.	105.1

Lymphatics.—Post. and ant. mediastinal, tuberculous. Tubercles on right and left lungs and liver.

Diagnosis.—Tuberculosis.

(18) Variety, ———. Age, ———. Sex, female.

Condition, fair.

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.0
5 a. m.	100.0
7 a. m.	103.8
11 a. m.	105.3
1 p. m.	106.6
3 p. m.	106.0

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Serous membranes.—Diaphragmatic, abdominal side, tuberculous. Mesenteries, tuberculous. Right and left lungs, liver and spleen tuberculous.

Diagnosis.—Tuberculosis.

(19) Variety, ———. Age, ———. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	99.3
5 a. m.	102.6
7 a. m.	101.0
11 a. m.	105.5
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, cardiac and hepatic, tuberculous. Serous membranes.—R. costal and diaphragmatic, thoracic side, tuberculous. Right and left lungs, liver and spleen tuberculous.

Diagnosis.—Tuberculosis.

(20) Variety, ———. Age, ———. Sex, male.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.3
5 a. m.	100.0
7 a. m.	102.0
11 a. m.	101.3
1 p. m.	104.0
3 p. m.	104.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right and left lungs, tuberculous.
Diagnosis.—Tuberculosis.

(21) Variety, ———. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	101.3
5 a. m.	101.0
7 a. m.	100.5
11 a. m.	103.0
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous.
Diagnosis.—Tuberculosis.

(22) Variety, ———. Age, ———. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
10 p. m., Injection	101.3
5 a. m.	102.0
7 a. m.	102.5

Time.	Temperature.
11 a. m.	105.0
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(23) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.6
5 a. m.	101.5
7 a. m.	102.5
11 a. m.	104.5
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Liver, tuberculous.

Diagnosis.—Tuberculosis.

(24) Variety, ———. Age, ———. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.8
10 p. m., Injection	101.0
5 a. m.	101.0
7 a. m.	102.0
9 a. m.	103.0
1 p. m.	104.2
3 p. m.	104.2

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, tuberculous.

Diagnosis.—Tuberculosis.

(25) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	100.0
5 a. m.	101.0
7 a. m.	100.5
11 a. m.	102.8
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(26) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	100.0
5 a. m.	101.0
7 a. m.	100.5
11 a. m.	102.8
1 p. m.	105.0
3 p. m.	105.5

Lymphatics.—Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Right and left lungs, tuberculous.

Diagnosis.—Tuberculosis.

(27) Variety, ———. Age, 9 years. Sex, female. January 27, 1894.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
6 p. m.	101.3
10 p. m., Injection	101.0
5 a. m.	101.0
7 a. m.	101.0
9 a. m.	101.3
1 p. m.	103.0
3 p. m.	103.0

Lymphatics.—Post. and ant. mediastinal, tuberculous, enlarged. Numerous tubercles on liver.

Diagnosis.—Tuberculosis.

Herd of A. B. Knapp. Stanfordville, January 27, 1894.

Variety, Jersey. Age, 8 years. Sex, female.

Condition, fair.

Post. and ant. mediastinal, and cardiac lymphatics, tuberculous.

Serous membranes.—R. and L. pulmonary, pericardium, right and left costal and diaphragmatic, thoracic side, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.—Tuberculosis.

Herd of J. S. Gilbert. Hyde Park, February 1, 1894.

Variety, Native. Age, 4 years. Sex, female.

Condition, fair.

Left lung and uterus, tuberculous.

Diagnosis.—Tuberculosis.

Herd of Wm. H. Bower. Pleasant Valley, February 3, 1894.

Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Lymphatics.—Post. and ant. mediastinal tuberculous.

Serous membranes.—Right and left pulmonary, right and left costal, and diaphragmatic, thoracic side, tuberculous. Right and left lungs, and liver, tuberculous.

Diagnosis.—Tuberculosis.

Herd of James Krum. Rhinebeck, February 2, 1894.

(1) Variety, Grade Holstein. Age, ———. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.5
10 p. m., Injection	100.2
5 a. m.	100.0
7 a. m.	100.5
11 a. m.	101.0
1 p. m.	101.5
3 p. m.	101.5

Post-mortem showed mammae indurated.

Diagnosis.—(None given.)

(2) Variety, Holstein Grade. Age, ———. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.0
5 a. m.	101.5
7 a. m.	102.5
11 a. m.	103.0
1 p. m.	102.0
3 p. m.	102.0

Liver, tuberculous.

Diagnosis.—Tuberculosis.

Herd of J. D. Wing. Millbrook, February 22-23, 1894.

(1) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.0
5 a. m.	102.0
7 a. m.	103.0
11 a. m.	104.5
1 p. m.	104.5
3 p. m.	102.5

Lymphatics.—Post. mediastinal, tuberculous. Serous membranes.—Diaphragmatic, thoracic side, tuberculous. Right and left lungs, tuberculous.

Diagnosis.—Tuberculosis.

(2) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.8
10 p. m., Injection	101.2
5 a. m.	101.0
7 a. m.	102.5
11 a. m.	103.0
1 p. m.	105.0
3 p. m.	105.6

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.—Tuberculosis.

(3) Variety, Jersey. Age, ———. Sex, female.
Condition, good, February 22-23, 1894.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.6
5 a. m.	103.0
7 a. m.	106.5
11 a. m.	107.0
1 p. m.	107.0
3 p. m.	106.2

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right lung, tuberculous.
Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	100.5
5 a. m.	103.3
7 a. m.	106.3
11 a. m.	107.3
1 p. m.	107.0
3 p. m.	106.3

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs, tuberculous.
Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.5
5 a. m.	103.0

me.	
[illegible] a. m.	[illegible]
11 a. m.	[illegible]
1 p. m.	104.5
3 p. m.	[illegible]

Serous membranes.—Diaphragmatic, thoracic side, tuberculous. Right and left lungs, tuberculous.

Diagnosis.—Tuberculosis.

(6) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.5
5 a. m.	104.0
7 a. m.	104.0
11 a. m.	105.5
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Left lung, tuberculous.

Diagnosis.—Tuberculosis.

(7) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperatu-
5 p. m.	101
10 p. m., Injection	103
5 a. m.	103
7 a. m.	105
[illegible] m.	10
[illegible]	1
[illegible]	1

Lymphatics.—Ant. mediastinal, tuberculous. Right and left lungs, tuberculous.

Diagnosis.—Tuberculosis.

(8) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.5
10 p. m., Injection	101.0
5 a. m.	102.8
7 a. m.	107.2
11 a. m.	107.0
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right lung, left lung and liver, tuberculous.

Diagnosis.—Tuberculosis.

(9) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.0
10 p. m., Injection	100.5
5 a. m.	101.0
7 a. m.	104.0
11 a. m.	105.6
1 p. m.	106.6
3 p. m.	105.6

Lymphatics.—Post. mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(10) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.0
5 a. m.	102.0
7 a. m.	103.3
11 a. m.	105.0
1 p. m.	106.0
3 p. m.	106.5

Lymphatics.—Post. and ant. mediastinal, tuberculous. Right lung, tuberculous.
Diagnosis.—Tuberculosis.

(11) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.5
5 a. m.	102.0
7 a. m.	105.0
11 a. m.	107.0
1 p. m.	105.6
3 p. m.	103.5

Right lung, left lung and liver, tuberculous.
Diagnosis.—Tuberculosis.

(12) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.6
5 a. m.	103.0

Time.	Temperature.
7 a. m.	103.6
11 a. m.	104.0
1 p. m.	105.0
3 p. m.	103.5

Lymphatics.— Post. and ant. mediastinal, tuberculous. Liver, tuberculous.

Diagnosis.— Tuberculosis.

(13) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.0
5 a. m.	101.0
7 a. m.	102.5
11 a. m.	104.0
1 p. m.	105.6
3 p. m.	105.2

Lymphatics.— Post. mediastinal, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(14) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.2
10 p. m., Injection	102.0
5 a. m.	102.5
7 a. m.	106.0
11 a. m.	105.5
1 p. m.	104.6
3 p. m.	104.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.— *Tuberculosis.*

(15) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.5
10 p. m., Injection	100.0
5 a. m.	101.5
7 a. m.	104.6
11 a. m.	105.0
1 p. m.	105.0
3 p. m.	104.5

Lymphatics.— Post. mediastinal, tuberculous. Right and left lungs, tuberculous.
Diagnosis.— Tuberculosis.

(16) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.0
10 p. m., Injection	100.5
5 a. m.	101.5
7 a. m.	103.6
11 a. m.	104.5
1 p. m.	104.5
3 p. m.	104.0

Lymphatics.— Post. and ant. mediastinal, tuberculous.
Diagnosis.— Tuberculosis.

(17) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.6
10 p. m., Injection	102.0
5 a. m.	103.0

Time.	Temperature.
7 a. m.	105.5
11 a. m.	105.6
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.—Post. mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(18) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.6
10 p. m., Injection	102.0
5 a. m.	102.0
7 a. m.	104.0
11 a. m.	105.5
1 p. m.	105.5
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, tuberculous.

Diagnosis.—Tuberculosis.

(19) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.6
10 p. m., Injection	101.6
5 a. m.	105.0
7 a. m.	106.5
11 a. m.	105.6
1 p. m.	105.5
3 p. m.	105.0

Lymphatics.— Post. mediastinal, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(20) Variety, Jersey. Age, 4 months. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	103.0
5 a. m.	104.6
7 a. m.	105.0
11 a. m.	105.2
1 p. m.	105.5
3 p. m.	105.0

No lesions found.

(21) Variety, Jersey. Age, 4 months. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.5
5 a. m.	104.0
7 a. m.	104.5
11 a. m.	105.0
1 p. m.	104.6
3 p. m.	104.0

No lesions found.

Herd of L. Verplanck. Fishkill, January 4, 1894.

(1) Variety, Guernsey. Age, 10 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	101.0
6 a. m.	102.0

Time.	Temperature.
9 a. m.	102.0
12 m	106.0
2 p. m.	106.2
4 p. m.	106.0

Lymphatics.—Post. and ant. mediastinal, enlarged and caseous. Right and left lungs, with numerous tubercles.

Diagnosis.—Tuberculosis.

(2) Variety, Guernsey. Age, 3 years. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	102.5
6 a. m.	103.0
9 a. m.	105.6
12 m	104.5
2 p. m.	106.0
4 p. m.	104.6

Large tubercles on liver, caseous matter.

Diagnosis.—Tuberculosis.

(3) Variety, Grade Guernsey. Age, 6 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
11 p. m., Injection	100.5
6 a. m.	102.0
9 a. m.	103.5
12 m	106.0
2 p. m.	105.6
4 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, enlarged, caseous. Serous mebranes.— R. and L. costals, covered with tubercles. Few tubercles on right and left lungs. Spleen, spotted.

Diagnosis.— Tuberculosis.

(4) Variety, Holstein. Age, 5 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	101.0
6 a. m.	102.3
9 p. m.	101.5
12 m	105.0
2 p. m.	104.5
4 p. m.	104.0

Lymphatics.— Post. and ant. mediastinal, enlarged, caseous matter. Serous membranes.— Diaphragmatic, thoracic side, covered with small tubercles. Right and left lungs, with tubercles.

Diagnosis.— Tuberculosis.

(5) Variety, Holstein. Age, 1 year. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature
5 p. m.	101.6
11 p. m., Injection	102.0
6 a. m.	105.0
9 a. m.	107.0
12 m	106.0
2 p. m.	105.0
4 p. m.	105.0

Lymphatics.— Post. mediastinal, very large, caseous.

Diagnosis.— Tuberculosis.

(6) Variety, Guernsey. Age, 4 years. Sex, male.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
11 p. m., Injection	101.5
5 a. m.	102.0
7 a. m.	107.0
11 p. m.	106.4
1 p. m.	106.0
3 p. m.	105.4

Right lung, had large tubercles, caseous matter. Left lung, small tubercles, caseous matter.
Diagnosis.— Tuberculosis.

(7) Variety, Grade Guernsey. Age, 5 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.0
5 a. m.	102.5
7 a. m.	101.5
11 a. m.	105.5
1 p. m.	106 5
3 p. m.	106.0

Lymphatics.— Post. and ant. mediastinal. enlarged, tuberculous.
Diagnosis.— Tuberculosis.

(8) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
11 p. m., Injection	101.5
5 a. m.	103.0

Time.	Temperature.
7 a. m.	104.0
11 a. m.	104.5
1 p. m.	103.5
3 p. m.	103.0

Lymphatics.— Post. and ant. mediastinal, enlarged and caseous. Serous membranes.— Omentum, covered with small tubercles.

Diagnosis.— Tuberculosis.

(9) Variety, Native. Age, 10 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	101.5
5 a. m.	102.5
7 a. m.	101.5
11 a. m.	105.5
1 p. m.	106.5
3 p. m.	106.0

Lymphatics. Post. and ant. mediastinal enlarged, tuberculous.

Diagnosis.— Tuberculosis.

(10) Variety, Grade Holstein. Age, 8 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	102.0
5 a. m.	102.1
7 a. m.	100.8
11 a. m.	106.0
1 p. m.	106.0
3 p. m.	106.2

Lymphatics.— Post. and ant. mediastinal, enlarged, tubercles. Right and left lungs, small tubercles.

Diagnosis.— Tuberculosis.

(11) Variety, Grade Guernsey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	102.0
5 a. m.	101.6
7 a. m.	103.0
11 a. m.	104.5
1 p. m.	102.0
3 p. m.	102.0

Lymphatics.— Post. and ant. mediastinal, enlarged, tubercles. Liver and spleen, spotted.
Diagnosis.— Tuberculosis.

(12) Variety, Native. Age, 6 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., Injection	102.0
5 a. m.	103.0
7 a. m.	106.8
11 a. m.	104.5
1 p. m.	103.0
3 p. m.	101.0

Right and left lungs, with several tubercles, caseous. Spleen, spotted.
Diagnosis.— Tuberculosis.

(13) Variety, Native. Age, 10 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.0
11 p. m., Injection	100.5
6 a. m.	101.5

Time	Temperature.
9 a. m.	102.5
12 a. m.	101.0
2 p. m.	104.0
4 p. m.	103.5

Liver and spleen, spotted with small tubercles. Mammae, indurated.

Diagnosis.— Tuberculosis.

(14) Grade Guernsey. Age, 4 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
11 p. m., Injection	103.0
6 a. m.	102.0
9 a. m.	103.0
12 a. m.	106.6
2 p. m.	106.5
4 p. m.	106.0

Lymphatics.— Post. and ant. mediastinal, enlarged, tubercles. Cardiac, enlarged, tubercles. Right and left lungs, with few tubercles.

Diagnosis.— Tuberculosis.

(15) Variety, ———. Age, 6 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
11 p. m., injection	100.5
6 a. m.	106.5
9 a. m.	103.5
12 m.	102.0
2 p. m.	101.3
4 p. m.	100.5

Lymphatics.— Post. and ant. mediastinal, enlarged, tuberculous. Serous membranes.— R. and L. pulmonaries, pericardium, R. and L. costals, covered with tubercles. Right and left lungs, filled with tubercles.

Diagnosis.— Tuberculosis.

(16) Variety, Grade Holstein. Age, 6 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
11 p. m., Injection	103.3
6 a. m.	104.0
9 a. m.	104.8
12 m	104.5
2 p. m.	105.2
4 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, enlarged, tubercles. Serous membranes.— Pericardium, tubercles. Small tubercles on right and left lungs. Spleen, spotted.

Diagnosis.— Tuberculosis.

(17) Variety, Grade Guernsey. Age, 4 years. Sex, female. Condition fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.0
11 p. m., Injection	101.0
5 a. m.	104.5
7 a. m.	105.5
11 a. m.	106.2
1 p. m.	105.5
3 p. m.	104.5

Lymphatics.— Post and ant. mediastinal, enlarged, caseous; tubercles on right lung.

Diagnosis.— Tuberculosis.

Herd of M. Lauerman. T. Poughkeepsie, February 2, 1894.

(1) Variety, Guernsey. Age, ———. Sex, female.

Condition, poor.

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes.— R. and L. costals, tuberculous. Right and left lungs, and liver tuberculous.

Diagnosis.— Tuberculosis.

(2) Variety, ———. Age, ———. Sex, female.

Condition, fair.

Post. and ant. mediastinal and cardiac, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

Herd of H. L. Rymph. T. Poughkeepsie, February 20, 1894.

Variety, ———. Age, ———. Sex, female.

Condition, fair.

Lymphatics.— Post. mediastinal, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

Herd of G. J. Downing. February 13, 1894.

(1) Variety, Jersey. Age, 3 years. Sex, female.

Condition, good.

Lymphatics.— Post. and ant mediastinal, tuberculous. Right lung, tuberculous.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, 10 years. Sex, female.

Condition, poor.

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes.— R. and L. pulmonary, R. and L. costals, diaphragmatic, thoracic side, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

Herd of Douglas Merritt. Rhinebeck, March 1, 1894.

(1) Variety, Jersey. Age, ———. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	99.25
10 p. m., Injection	100.00
6 a. m.	99.25
8 a. m.	99.00
11 a. m.	100.00
2 p. m.	104.00
4 p. m.	105.00

Serous membranes.— R. and L. pulmonaries, R. and L. costals, diaphragmatic, thoracic side, mesenteries, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, ———. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	101.00
10 p. m., Injection	101.00
6 a. m.	106.00
8 a. m.	107.25
10 a. m.	107.00
2 p. m.	106.50
4 p. m.	106.00

Lymphatics.— Retro-pharyngeal very large, tuberculous. Post. and ant. mediastinal, tuberculous. Serous membranes.— L. pulmonary, diaphragmatic, abdominal side, mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	100.25
10 p. m., Injection	101.00
6 a. m.	105.00
8 a. m.	106.00
10 a. m.	105.50
2 p. m.	106.25
4 p. m.	106.00

Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Serous membranes.— R. and L. pulmonary, R. and L. costal, diaphragmatic, thoracic side, tuberculous. Right and left lungs, liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.00
10 p. m., Injection	101.00
6 a. m.	102.50
8 a. m.	104.75
10 a. m.	105.75
2 p. m.	106.25
4 p. m.	104.00

Lymphatics.— Post. and ant. mediastinal, cardiac, other thoracic, intestinal and other abdominal, tuberculous. Serous membranes.— Pericardium, R. and L. costals, diaphragmatic, thoracic and abdominal sides, mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.00
10 p. m., Injection	101.00
6 a. m.	102.50
8 a. m.	104.75
10 a. m.	106.00
2 p. m.	104.00
4 p. m.	105.00

Lymphatics.— Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Cardiac had no lesion. Other thoracic, tuberculous. Serous membranes.— R. and L. pulmonaries, diaphragmatic, thoracic side, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(6) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.25
10 p. m., Injection	102.25
6 a. m.	105.50
8 a. m.	106.50
10 a. m.	107.00
2 p. m.	106.50
4 p. m.	104.25

Lymphatics.— Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Serous membranes.— R. pulmonary, mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	101.50
10 p. m., Injection	101.25
6 a. m.	104.50
8 a. m.	107.00
10 p. m.	107.25
2 p. m.	106.00
4 p. m.	106.00

Lymphatics.— Post. and ant. mediastinal tuberculous. Serous membranes.— R. and L. pulmonaries, R. and L. costals, diaphragmatic, thoracic and abdominal sides, mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.
Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, ———. Sex, female.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	101.5
10 p. m., Injection	101.0
6 a. m.	102.5
8 a. m.	103.5
10 a. m.	105.0
2 p. m.	106.0
4 p. m.	104.5

Lymphatics.— Post. and ant. mediastinal, and hepatic, tuberculous. Serous membranes, diaphragmatic, thoracic side, tuberculous. Right and left lungs and liver, tuberculous.
Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.00
10 p. m., Injection	101.75
6 a. m.	102.00
8 a. m.	103.00
10 a. m.	104.00
2 p. m.	106.00
4 p. m.	105.00

Serous membranes.— R. and L. pulmonaries, diaphragmatic, abdominal side, abdominal walls, mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.
Diagnosis.— Tuberculosis.

(10) Variety, Jersey. Age, ———. Sex, female.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.00
10 p. m., Injection	101.00
6 a. m.	106.00
8 a. m.	107.25
10 a. m.	107.00
2 p. m.	106.00
4 p. m.	106.25

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs, badly tuberculous. Liver, tuberculous.
Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, 1 year. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.25
10 p. m., Injection	102.00

Time.	Temperature.
6 a. m.	104.00
8 a. m.	104.50
10 a. m.	106.25
2 p. m.	105.00
4 p. m.	104.50

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, 1 year. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.25
10 p. m., Injection	102.00
6 a. m.	104.00
8 a. m.	104.50
10 a. m.	106.25
2 p. m.	106.25
4 p. m.	105.00

Lymphatics.— Retro-pharyngeal, post. and ant. mediastinal, tuberculous. Serous membranes.—Diaphragmatic, thoracic side, and mesenteries, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(13) Variety, ———. Age, ———. Sex, male.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	101.50
10 p. m., Injection	101.25
6 a. m.	103.50
8 a. m.	104.00
10 a. m.	105.00
2 p. m.	106.00
4 p. m.	105.50

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

(14) Variety, ———. Age, ———. Sex, male.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
4 p. m.	102.25
10 p. m., Injection	102.50
6 a. m.	105.00
8 a. m.	105.50
10 a. m.	106.00
2 p. m.	106.00
4 p. m.	105.00

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes.— R. and L. costals, diaphragmatic, thoracic side, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

Herd of W. A. Moore. Rhinebeck, March 1, 1894.

Variety, ———. Age, ———. Sex, female.

Condition, fair.

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes.— Mesenteries and omentum, tuberculous. Right and left lungs and liver, tuberculous.

Diagnosis.— Tuberculosis.

Herd of G. J. Storms. Stormville, March 1, 1894.

Variety, ———. Age, ———. Sex, female.

Condition, poor.

Lymphatics.— Post. and ant. mediastinal, tuberculous. Right and left lungs and liver, badly tuberculous.

Diagnosis.— Tuberculosis.

HERKIMER COUNTY.

Herd of J. N. Robinson. Paine's Hollow, November 29, 1893.

Variety, ———. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment, not given.

Post-mortem showed: The posterior pharyngeal gland, enlarged with gray foci. Lungs, normal. Intestinal lymphatics, normal.

Diagnosis.— Incipient tuberculosis.

Remarks of inspector.— Mr. Robinson purchased the present place four years ago. Six months after taking possession he lost two cows that were unable to stand and wasted away. A year after another died; death attributed to over-feeding. Subsequently found a cow dead in the fields and after that a bull, making six deaths in four years.

Herd of Herman Bliss. Mohawk, July 9, 1893.

(1) Variety, ———. Age, 2 years. Sex, male.

Condition cougher.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	102.4
Injection:	
8 a. m.	101.8
10.30 a. m.	102.0
1.20 p. m.	101.6

Post-mortem.— Retro-pharyngeal lymph. nodes, little enlarged. Pre-humeral enlarged, with three penny size areas of radiate structure whiter than rest of node, which was very dark. Other nodes, normal. Lungs, with two or three, scattered, nut size patches. Lobar pneumonia, containing purulent matter in bronchi.

Diagnosis.— Possibly incipient tuberculosis. (Material submitted for pathological examination.)

(2) Variety, ———. Age, 8 years. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	
Morning	102.2
	105.4
	104.6

Retro-pharyngeal glands, egg-size, stramineous foci. Post. mediastinal nodes with a few foci and a little enlarged. Cardiac, egg size. A few small foci in anterior mediastinal. None in abdomen. Uterus, with six weeks' calf.
Diagnosis.— Tuberculosis.

(3) Variety, ———. Age, 7 years. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	104.4
do	106.1
do	105.5

Mediastinal glands, enlarged, with numerous hard foci. The posterior contains the most and the largest. Cardiac, egg-size with tubercles. Each lung, with few scattered nodules in substance. Calved the previous Monday.
Diagnosis.— Tuberculosis.

(4) Variety, ———. Age, 7 years. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.1
Injection:	
Morning	104.8
do	105.1
do	105.0

External lymphatics, reddened, little enlarged. Posterior mediastinal, slightly. Anterior mediastinal and cardiac, with many foci, small in size. Right lung adherent in spots to ribs. Ant. lobe entirely tuberculous. Left lung with few foci. Epiploon with peritonitis, many scattered tubercles. Many nodules along line of juncture of tracheal rings, especially at bifurcation of trachea. Also retro-tracheal nodes. Uterus with two months' calf.

Diagnosis.— Tuberculosis.

(5) Variety, ———. Age, 5 years. Sex, female.

Condition ———.

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	102.1
do	103.3
do	104.8

One small tubercle in posterior mediastinal node. Uterus, with two months' calf.

Diagnosis.— Incipient tuberculosis.

(6) Variety, ———. Age, 9 years. Sex, female.

Condition ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	———
Morning	102.0
do	102.6
do	106.6

External, lymphatics, enlarged, but no tubercles. Retro-pharyngeal, also enlarged. All mediastinal nodes, fist-size or larger. Cardiac, fist-size with foci and all with hard deposits. Right lung, with many large nodules. Hepatized area in anterior lobe. Left lung, with abscess size of double fist.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	102.2
do	101.4
do	101.8

Diagnosis.— Tuberculosis (not shown by temperature).

Post-mortem.—All lymphatics, very dark. Cardiac, egg size with cheesy foci. Anterior mediastinal, with one or two. None in abdomen.

Diagnosis.— Incipient tuberculosis.

(8) Variety, ———. Age, 4 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	103.6
Injection:	
Morning	102.8
do	102.6
do	102.6

Post-mortem showed no evidences of tuberculosis. This animal was included on the suspicious list. Eight months' calf in uterus.

Diagnosis.— Not tuberculosis.

(9) Variety, ———. Age, 7 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	103.0
do	106.2
do	106.6

Mediastinal nodes, tuberculous. Posterior, the most. Cardiaac, egg size. Right lung, with two or three scattered, nut-size, nodules. External glands enlarged.

Diagnosis.— Tuberculosis.

(10) Variety, ———. Age, 6 years. Sex, female.

One year in stable.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	101.6
do	101.2
do	101.6

Post-mortem showed six weeks' calf in uterus.

Diagnosis.— Not tuberculosis.

(11) Variety, ———. Age, 4 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	———
Morning	103.4
do	106.3
do	104.9

Pre-humeral lymphatic, inflamed; also other external lymphatics. Cardiac, inflamed; no foci. Post. mediastinal, with few very small foci.

Diagnosis.— Incipient tuberculosis.

(12) Variety, Age, 6 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	102.—
do	104.
do	106.—

Posterior mediastinal and cardiac lymphatics, with few tubercles; ant. none. Three or four nodules in each lung, most in left.

Diagnosis.—Tuberculosis.

(13) Variety, Jersey. Age, 8 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	102.0
do	101.5
do	101.7

Post-mortem showed no lesions.

Diagnosis.—Not tuberculosis.

(14) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	
Morning	101.7
do	101.9
do	102.6
4 p. m.	102.9

Post-mortem showed no lesions.

Diagnosis.—Not tuberculosis.

(15) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.4
Injection:	
Morning	102.9
do	103.0
do	103.4
do	102.9

Mediastinal lymphatics, reddened. Posterior, enlarged. No foci, except one very minute pin point.

Uterus with eight months' calf.

Diagnosis.—Tuberculosis.

(16) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	103.7
do	103.9
do	104.3

Posterior, anterior and cardiac lymphatics, with few large foci. Hepatic, with one or two. None in lungs. No calf.

Diagnosis.—Incipient tuberculosis.

(17) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	103.0
do	102.1
do	102.1

Mediastinal lymphatic, enlarged. No cheesy foci. Calved two weeks ago.

Diagnosis.—(?).

(18) Variety, ———. Age, calf. Sex, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	
Morning	104.9
do	107.3
do	106.2

Post. ant. mediastinal and cardiac, lymphatic nodes, few foci. Slightly affected and enlarged. Lungs, with no lesions.

Diagnosis.— Incipient tuberculosis.

(19) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	102.4
do	103.4
do	104.7

Two or three minute foci in mediastinal and cardiac lymphatics. Three small nodules in one lung. Came in in spring.

Diagnosis.— Tuberculosis.

(20) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.6
Injection:	
Morning	105.0
do	106.0
do	105.4

Flank lymphatic, or pregenal, with four or five pea-size foci. Mediastinal and cardiac, all very large and hard with tubercles. Each lung, with large abscess. Calved ten days ago. The mother died of tuberculosis.

Diagnosis.— Tuberculosis.

(21) Variety, ———. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.8
Injection:	
Morning	103.3
do	103.0
do	102.8

External lymphatics, darkened, slightly enlarged. No foci. ght round patches. Lung with small patch, pneumonic. terus with calf eight and one-half months.

Diagnosis.———.

(22) Variety, ———. Age, 2 years. Sex, female.

emale.

Tuberculin experiment:

Time.	Temperature.
Evening	103.6
Injection:	
Morning	103.3
do	103.1
do	104.0

Glands, slightly reddened, a little enlarged. Cardiac, reserved for examination. Uterus with eight and one-half months calf.

Diagnosis.———.

(23) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.4
Injection:	
Morning	103.4
do	103.5
do	104.2

Post-mortem shows no lesions. Glands, normal. Lung, clear. Uterus, with nine months calf, due in a day or two.

Tuberculosis; not shown by post-mortem.

(24) Variety, ———. Age, calf, yearling. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	103.2
Injection:	
Morning	103.4
do	103.2
do	103.7

Post-mortem showed no lesion. Calved previous Monday. Uterus still enlarged.

Diagnosis.—Not tuberculous.

(25) Variety, ———. Age, yearling. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	101.8
do	101.5
do	101.7

Diagnosis.—Not tuberculous.

(26) Variety, ———. Age, yearling. Sex, male.

Tuberculin experiment:

Time	Temperature.
Evening	101.3
Injection:	
Morning	101.5
do	101.1
do	101.8

Diagnosis.—Not tuberculous.

(27) Variety, ———. Age, yearling. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.5
Injection:	
Morning	101.3
do	101.4
do	101.8

Shoulder or pre-humeral lymphatics, with inflammatory spot. No other lesion.

Diagnosis.—Not tuberculous.

(28) Variety, ———. Age, yearling. Sex, female.
Tuberculin experiment:

Time	Temperature.
Evening	102.2
Injection:	
Morning	101.6
do	101.6
do	101.7

Piece of diaphragm and lung saved for pathological examination.

Diagnosis.—Not tuberculosis.

(29) Variety, ———. Age, yearling. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	103.2
Injection:	
Morning	102.
do	102.
do	102.

Post-mortem showed no lesions.

Uterus, with calf of nearly nine months.

Diagnosis.—Not tuberculous.

(30) Variety, ———. Age, yearling. Sex, female.
Tuberculin experiment:

Time	Temperature.
Evening	101.6
Injection:	
Morning	101.6
do	101.5
do	101.5

Post-mortem showed four months' calf in uterus. No lesions.

Diagnosis.—Not tuberculous.

(31) Variety, ———. Age, yearling. Sex, female.

Tuberculin experiment:

Time	Temperature.
Evening	102.2
Injection:	
Morning	101.8
do	101.6
do	101.8

Post-mortem showed no lesion and no calf in uterus.

Diagnosis.—Not tuberculous.

The inspector adds the following summary:

Positively tuberculous	13
Positively healthy	8
Suspicious	3
With eight and a half months, or older, foetuses, and possessing suspicious temperatures, but probably healthy	7
	31

Remarks by inspector on the doubtful cases and failures in diagnosis:

No. 1, the two-year-old bull, had a persistent cough, but, on post-mortem, did not seem to have any tuberculous cause for it. The peculiar appearance of one of the external glands led me to save material and place it in the suspicious list. It is quite likely that No. 1 was correctly diagnosed by the tuberculin.

No. 7, the seven-year old Tidy, was a Jersey, and had been in the herd but a year. Unless the very low rise of 102.2 was to be taken as an index, she gave no indication of being diseased in the test. Of course, there is the possibility of a higher fleeting rise between the times of taking the different temperatures.

The high temperature of No. 8 was evidently due to her enciente condition. In defense of my selecting these animals

for slaughter as I would have done had not the herd been ordered slaughtered, I will state that I put these animals in the suspicious list not knowing the effect of the increased temperature of advanced pregnancy upon the tuberculin test, or of its effect in concealing slight rises which would otherwise indicate tuberculosis.

For precedence I had cow No. 2 of the Converse herd, whose temperature began at 102.2 but rose to 105.2. This case although incipient was more generalized than most cows. Her calf in the uterus was more than eight months old.

Cow No. 12, 6 years old, in the Birdsall herd, began with a temperature of 102.7 in the evening; dropped to 102 in the morning and subsequently ascended to 106.9, while on post-mortem she was but slightly tuberculous.

On the other hand, I have had cattle with a high initial temperature, although not advanced in pregnancy, which were tuberculous, although the highest temperature registered in the course of the testing exceeded little, if any, the initial temperature.

A cow of the Adams herd was one of this character. Beginning at 104.2 the temperature gradually lowered to 103.6 at 10 a. m., and to 98.5 at 1 p. m. The presence of another disease, articular rheumatism, seemed to cause the original high temperature and affect the course of the experiment. This animal was badly diseased with tuberculosis.

The yearling heifers of the Birdsall offer such cases. The initial temperature of No. 27 was 103.7; dropped to 101.9; highest 102.3. This was a questionable case on account of the size of glands.

Heifer No. 25, with initial temperature of 103.1, and subsequent temperature of 102.7 was certainly tuberculous.

Yearling heifer No. 28, proved also tuberculous. Initial temperature 103.8, and subsequent temperatures 101.4, 101.2, 101.4, 100.6, 101.1. These heifers may not have received sufficient tuberculin, receiving but one drop, while the Bliss heifer received two. They were, however, much smaller.

On considering facts it seemed best to me to include these pregnant heifers with high temperatures in the suspicious list rather than leave them behind with the attaching doubt. The outcome has afforded valuable additional data in the future handling of this class of animals.

Another error seems to have been furnished by No. 14. The certainty with which tuberculin does its work, however, leads me to suspect that my failure to find the cheesy product or foci characteristic of the disease, is no good sign that the disease was not there. How I am to detect incipient cases, in that stage just prior to the degeneration of the tissues of the lymphatics into cheesy foci, unless I accept the tuberculin index, is more than I know. I prefer to believe that the animal was tuberculous. Tuberculin has failed to point out some very bad cases; but I am not so sure that it has indicated any, when the conditions are all known, that are not tuberculous. I believe, therefore, that No. 14 was tuberculous, or, at least, still to be left on the suspected list.

Nos. 15, 21, 22, and the yearling heifers Nos. 23, 24, and 29 belong to the same class as No. 8, which have been discussed.

If the cows heavy with calves are to be claimed as not tuberculous, and it now seems as though they should, it will be seen that the cows and heifers exposed but one year, mostly escaped infection. No. 7, however, was infected.

Had I chosen cattle for slaughtering, I would have omitted No. 7, and include the cattle in advanced pregnancy. Following my usual custom, it is doubtful if I would have killed all these, finding that I was mistaken on the first. Until material reserved for the pathologist has been looked over, the accuracy with which the tuberculin has worked cannot be told. Its worst error is the skipping of No. 7. Whether I, by my use of the material, may be in some way at fault for these errors, I cannot say. Why I get reactions in apparently identical cases with those in which I get none is beyond understanding.

Up to the present, it seems that by repeating an inspection, say at a year's interval, that herds can be entirely freed of tuberculosis, not reintroduced with other stock. The introduction of tuberculosis with purchased stock can be guarded against by the inspection of the present herds.

Altogether this herd has furnished valuable proof of the effectiveness of tuberculin, but one serious error being set against No. 7. The others are errors of interpretation, or, perhaps, not errors.

Although I have not seen the literature of the last few months, I believe I can safely say that the tuberculin test has not been so vigorously handled, or so rigorously criticised as the Board of Health is now doing in conducting its tests.

To select out cattle with decided reactions gives positive results for tuberculin; but to critically examine the negative results by also inspecting the supposed healthy cattle, gives, by far, more positive results, and also seems to add a range of error to the tuberculin test.

This range of error, or the limitations of the use of tuberculin, seems to be the most profitable work of the present; for, when the great breeders of cattle of New York State ask of us to guarantee the health of their herds, we will, by these studies, come nearest to knowing how to perfect this guarantee.

The following is the report of the pathologist on the specimens submitted:

From No. 14: Bronchus, with tubercular inflammation of its wall, with small conglomerate tubercles in its neighborhood.

Diagnosis.— Tuberculosis.

From No. 15: Large hyperplastic lymph. node, studded with many small circumscribed tubercles. A few of these show cheesy centers.

Diagnosis.— Tuberculosis.

From No. 17: Hyperplastic lymph. node with moderate number of tubercles. Lung in same package shows advanced tuberculosis, peri-bronchitis and broncho-pneumonia.

Diagnosis.— Tuberculosis.

From No. 21: Bronchus quite completely disintegrated as result of tubercular inflammation. Its center is filled with a large quantity of coarse, cheesy matter. Lung surrounding this bronchus shows marked peri-bronchitis and broncho-pneumonia.

Diagnosis.— Tuberculosis.

From No. 22: Hyperplastic lymph. node, showing a few small round collections of small spheroidal cells resembling miliary tubercles; in places scattered through a more diffuse round cell tissue. There is commencing cheesy degeneration, so we may set down this case as unmistakably tuberculosis.

From No. 28: Hyperplastic lymph. node. This node contains very few concentrically arranged tubercles, but in the hyperplastic lymphatic tissue, in several places, there are irregular areas of cheesy degeneration in early stage. There is, as yet, no real softening of the tissue. The lung which accompanies it is interesting as showing an area of what appears like atalectasis or collapse of the lung, scattered through which are areas of tuberculosis, more particularly near and around the bronchi. In the lung adjacent to the atalectatic area there is tubercular peri-bronchitis.

The report of the pathologist, observes the inspector, makes twenty-one of the animals tuberculous out of the thirty-one slaughtered. This number is what I reported in my original pre-mortem diagnosis. The condition and the tuberculin test amply justify the slaughter of the herd. Only one other method would weed out the disease, and that is to again test the remnants of the herd at the end of a year.

JEFFERSON COUNTY.

Herd of F. A. Converse. Woodville, June 23, 1893.

(1) Variety, Ayrshire. Age, 6 years. Sex, female.

Condition ———.

Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	101.6
Injection:	
4.30 p. m.	101.3
7.30 a. m.	101.4
10.30 a. m.	103.0
11.15 a. m.	103.6
1.30 p. m.	103.4

Post-mortem.— Throat lymphatics, little enlarged. Post. mediastinal enlarged, no foci. Cardiac lymph. node, enlarged with two pin-head foci. Anterior mediastinal, normal. Nut-sized nodule in liver, possibly tubercular. Uterus, normal. General condition, fat. Bunch on outside of each hind leg, just below the knee. The right contained sacs or cysts of yellow serum. The left a tumor three inches by two inches by one inch, with long granular lining, and caseous moterial scattered throughout. Lung, nearly normal.

Diagnosis.— Tuberculosis, incipient.

(2) Variety, Ayrshire. Age, 4 years. Sex, female.
Condition good.
Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	102.2
Injection:	
4.30 a. m.	102.0
7.30 a. m.	101.8
10.15 a. m.	104.4
11.15 a. m.	105.2
1.30 p. m.	103.6

Throat lymphatic nodes, very slightly enlarged. Posterior mediastinal, with numerous foci, tubercular deposit. Anterior, with incipient foci and reddened. An egg-size mass of tubercular deposit in posterior division of right lung. Epiploon and adjacent abdominal wall, with slight peritonitis. Inguinal nodes, reddened in periphery. No other tuberculous deposits found. Uterus, with male calf, eight months.

Diagnosis.— Incipient, generalized tuberculosis.

(3) Variety, Ayrshire. Age, 10 years. Sex, female.
Condition, thin.

Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	102.0
Injection:	
4.30 a. m.	100.6
7.30 a. m.	100.8
10.15 a. m.	100.6
11.15 a. m.	100.8
1.30 p. m.	100.8

Throat nodes, normal. Posterior mediastinal, with few foci. Cardiac, egg-size, many foci. One tubercle in intestinal lymphatic. Lungs, right, with a double fist-size mass and several small ones; left lung, with a still larger mass, posteriorly, and three or four fist-size masses, anteriorly. Epiploon, with large patch of peritonitis and a few minute tubercles. Uterus, normal.

Diagnosis.—Advanced general tuberculosis.

(4) Variety, Ayrshire. Age, 2 years. Sex, female.

Condition, thin.

Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	102.2
Injection:	
4.30 a. m.	102.4
7.30 a. m.	105.6
10.15 a. m.	104.8
11.15 a. m.	105.1
1.30 p. m.	106.0

Throat nodes, normal. Cardiac, size of goose egg, with hard, yellow, granular, confluent masses. Posterior mediastinal, with numerous large pea-size tubercles throughout, rather small in size. Ten pea-size tubercles found in intestinal lymphatics.

Diagnosis.—Incipient tuberculosis.

(5) Variety, Ayrshire. Age, 6 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	101.6
Injection:	
4.30 a. m.	101.4
7.30 a. m.	101.6
10.15 a. m.	101.4
11.15 a. m.	104.5
2.30 p. m.	105.0

Throat nodes, normal. Posterior mediastinal nodes, with two large, pea-size tubercles, and a number of small foci. Cardiac node, reddened; no foci. Pleuritis on right pleura and on diaphragm. Peritonitis on epiploon. Quite a quantity of serous effusion between stomach and diaphragm at reticulum. On removing a small cocoanut-size tumor from the wall of the stomach at this point, a six-penny wire nail was found perforating it from the stomach. Abscess not large. Inflammatory action sub-acute.

Diagnosis.—Incipient, localized tuberculosis and tumor of stomach, with abscess due to traumatic injury.

(6) Variety, Ayrshire. Age, 1 year. Sex, female.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
6.35 p. m.	102.2
Injection:	
Morning	104.4
do	102.4
do	102.1
do	102.4
do	101.4

Post-mortem.—No lesions of tuberculosis were found on closest inspection.

Diagnosis.—Perfectly healthy.

(7) Variety, Ayrshire. Age, 2 years. Sex, male.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	101.3
do	102.4
do	102.5
do	102.2
do	102.4

Throat nodes, normal. Posterior mediastinal, normal in size, but of dark color. Epiploon, covered with large patches of peritonitis, resembling tubercular growth. No tubercles thereon. All else apparently normal. Specimens saved for microscopist.
Diagnosis.—Incipient tuberculosis.

Remarks of inspector.—A cow, aged 8 years, has been reported as slaughtered by the owner. Her lungs were seen by the health officer and by the butcher. The latter described the lungs as grown to the ribs. The former cut into two or three abscesses like those he saw in No. 3. She was, therefore, in all probability, tuberculous.

Mr. Converse says, that the cow which died earlier had the same disease, and the health officer described the same sort of lesions which he saw in the lungs. He also thinks that the cow, which died a couple of years previously, had the same disease. Besides these cows, three others belonging to the herd earlier are said to have died while with —— at Clifton, Monroe county, three or four years ago.

In all these five cows have died with the disease and one slaughtered was found to contain it. These with the cattle slaughtered by the State made a total of seven head with advanced tuberculosis, and five with incipient tuberculosis. Twelve head affected in all. The importance of the fact that the seven head belonged to one set of animals which had been

to Monroe county, and that the other affected animals were but incipient cases points out the direction in which the original infection must be sought. In Mr. Converse's herd at present are cattle which have been bought from a neighboring herd but which stood the test. The primary infection was, therefore, either in Monroe county or in the herd before it was sent there. That it was not in the herd before it was sent to Monroe county seems to be clearly indicated by the fact that neither the parent herd of J. F. Converse have suffered loss from this disease, nor did the son's, F. A. Converse, until after he received back these cattle.

This herd in being affected less than others tried has been a most valuable test for the tuberculin. It is true that it failed to pick out the worst case. On the other hand, it selected five cases which it would have been absolutely impossible by any known method.

By request of Mr. F. A. Converse, I tested on June twenty-seventh and twenty-eighth four calves which had had more or less of the milk of No. 3. The reaction given by the test showed these calves to be presumably well.

LIVINGSTON COUNTY.

Herd of M. Wiard, Jr. Avon, March 12, 1894.

(1) Variety, Grade Holstein. Age, ———. Sex, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101. 2
Injection:	
Morning	102. 0
do	104. 4
do	105. 4
Afternoon	105. 0
do	105. 6

Lymphatics.—Post. mediastinal, calcareous and cheesy. Right lung, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(2) Variety, ———. Age, ———. Sex, ———.

Condition ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	102.4
do	104.4
do	104.4
Afternoon	104.6
do	103.2

Lymphatics.— Post. mediastinal, enlarged and calcareous. Cardiac, calcareous and cheesy. Left lung, with several pea-size foci, scattered.

Diagnosis.— Tuberculosis.

(3) Variety, ———. Age, ———. Sex, ———.

Condition ———.

Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	———
Morning	103.0
do	103.8
do	105.4
Afternoon	106.0

Lymphatics.— Post. mediastinal, enlarged and calcareous. Cardiac, calcareous.

Diagnosis.— Tuberculosis.

(4) Variety, Holstein. Age, ———. Sex, ———.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	101.4
do	103.0
do	104.8
Afternoon	105.4

Lymphatics.— Post. mediastinal and ant. mediastinal, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(5) Variety, Native. Age, ———. Sex, female.
Condition fair.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	———
Morning	102.0
do	104.4
do	104.2
Afternoon	103.4
do	103.0

Lymphatics.— Post. mediastinal, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(6) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	———
Morning	106.0
do	107.4
do	107.6
Afternoon	106.2
do	105.0

Lymphatics.—Retro-pharyngeal, enlarged and calcareous. Post. mediastinal, four by two by three, calcareous and cheesy. Ant. mediastinal, calcareous and cheesy. Cardiac, four by three by two, calcareous and cheesy. Intestinal, calcareous. Right lung, large, calcareous mass on post. lobe. Left lung, with numerous calcareous foci.

Diagnosis.—Tuberculosis.

(7) Variety, Native. ,Age ———. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	102.2
do	103.8
do	105.4
Afternoon	105.0
do	104.6

Lymphatics. Post. mediastinal and cardiac, calcareous and cheesy.

Diagnosis.—Tuberculosis.

(8) Variety, Native. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	105.8
do	107.0
do	107.2
Afternoon	107.0
do	104.4

Lymphatics.— Post. mediastinal and cardiac, calcareous and cheesy.

Right lung, post. lobe, calcareous and cheesy; left lung, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(9) Variety, Native. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	103.4
do	105.4
do	106.0
Afternoon	105.4
do	105.0

Lymphatics.— Post. and ant. mediastinal, calcareous. Cardiac four by three by two, calcareous and cheesy.

Right lung, post lobe, calcareous and cheesy; left lung calcareous and cheesy.

Diagnosis.— Tuberculosis.

(10) Variety, Native. Age, ———. Sex, female.

Condition.—

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	102.4
do	104.0
do	105.0
Afternoon	105.4

Lymphatics.— Post. mediastinal and cardiac, enlarged and calcareous. Right and left lungs, with numerous calcareous deposits.

Diagnosis.— Tuberculosis.

(11) Variety, Native. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	101.8
do	103.6
do	104.4
Afternoon	103.0
do	101.4

Lymphatics.— Post. mediastinal, very much enlarged. Cardiac, calcareous and cheesy.
Diagnosis.— Tuberculosis.

Herd of Wm. E. Dana. Avon, Livingston county, March 13, 1894.

(1) Variety, Native. Age, 5 years. Sex, female.
Condition.—
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	102.4
Injection:	
Morning	102.6
do	105.0
Afternoon	105.0
do	105.0

Lymphatics.— Post. mediastinal and cardiac, calcareous and cheesy. Uterus, with foetus, female, six weeks.
Diagnosis.— Tuberculosis.

(2) Variety, Native. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection	101.8
Morning	103.0
do	106.0
Afternoon	107.6
do	107.6

Lymphatics.— Post. mediastinal, calcareous. Serous membranes.— Omentum, studded.
Diagnosis.— Tuberculosis.

(3) Variety, Native. Age, 9 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.0
Injection:	
Morning	101.8
do	105.4
Afternoon	106.0
do	104.8

Lymphatics.— Post. mediastinal, calcareous and cheesy. Cardiac, calcareous and enlarged. Uterus, with female foetus four months.
Diagnosis.— Tuberculosis.

(4) Variety, Native. Age, 7 years. Sex, female.
Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.0
Injection:	
Morning	102.6
do	103.8
Afternoon	106.0
do	106.0

Lymphatics.— Post mediastinal, with small pin-head deposits, calcerous.

Diagnosis.— Tuberculosis.

(5) Variety, Native. Age, 10 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
do	102.4
Injection:	
Morning	102.6
do	103.0
Afternoon	104.0
do	105.4
do	106.0

Lymphatics.— Post mediastinal, ant. mediastinal, cardiac and other thoracic, calcareous and cheesy. Right and left lungs, with abscess cavities. Uterus, with male foetus, four months.

Diagnosis.— Tuberculosis.

(6) Variety, Native. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.0
Injection:	
Morning	102.0
do	105.6
Afternoon	106.0
do	105.4

Lymphatics.— Cardiac, calcareous and cheesy. Serous membranes.— Omentum, studded with tubercular deposits. Uterus, with male foetus, four months.
Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	101.8
Injection:	
Morning	102.2
do	105.4
Afternoon	106.0
do	105.4

Lymphatics.— Post. mediastinal, calcerous and enlarged. Ant. mediastinal, calcareous. Cardaic, fist size, calcareous. Intestinal, calcerous. Right lung, abscess cavity breaking down, Uterus, with foetus, female, two months.
Diagnosis.— Tuberculosis.

(8) Variety, Native. Age, 8 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	101.6
Injection:	
Morning	102.4
do	105.4
Afternoon	106.8
do	106.0

Lymphatics.—Post. and ant. mediastinal, cardiac and other thoracic, calcareous.
Uterus, with male foetus, four months.
Diagnosis.—(Not given.)

(9) Variety, Native. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.2
Injection:	
Morning	102.2
do	105.2
Afternoon	104.8
do	105.0

Lymphatics.—Prescapular, post. mediastinal, ant. mediastinal, cardiac and other thoracic, calcareous. Intestinal, calcareous. Right lung, calcareous.
Diagnosis.—Tuberculosis.

(10) Variety, Native. Age, 8 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.0
Injection:	
Morning	105.0
do	106.2
Afternoon	105.8

Lymphatics.—Retro-pharyngeal, calcareous foci. Inguinal, hyperplasia. Post. mediastinal, four by three by two, calcareous and cheesy. Ant. mediastinal, calcareous. Cardiac, calcareous and enlarged. Other thoracic, calcareous. Trachea, lung attached to both sides. Right and left lungs, with numerous abscess cavities.

Uterus, with female foetus, three months.

Diagnosis.—Tuberculosis.

(11) Variety, Jersey. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.2
Injection:	
Morning	102.0
do	102.8
Afternoon	104.8
do	105.4

Lymphatics.—Post. mediastinal, calcareous, Cardiac, enlarged and calcareous. Intestinal, calcareous.

Diagnosis.—Tuberculosis.

(12) Variety, Native. Age, 6 years. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	102.0
Injection:	———
Morning	102.2
do	104.8
Afternoon	105.0
do	105.4

Lymphatics.—Post. mediastinal, cardiac and other thoracic, calcareous and enlarged.
Uterus, with male foetus, seven months.
Diagnosis.—Tuberculosis.

(13) Variety, Jersey. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.2
Injection:	———
Morning	105.0
do	106.0
Afternoon	106.6
do	104.0
do	103.2

Lymphatics.—Post. mediastinal and cardiac, calcareous. Intestinal, calcareous. Right and left lung, calcareous.
Uterus, with female foetus, two months.
Diagnosis.—Tuberculosis.

(14) Variety, Native. Age, 9 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Afternoon	101.6
do	102.2
Injection:	
Morning	101.8
do	105.6
Afternoon	106.4
do	106.0

Lymphatics.— Cardiac, fist size, calcareous and cheesy. Left lung, calcareous.
Diagnosis.— Tuberculosis.

(15) Variety, Grade Jersey. Age, 3 years. Sex, female.
Condition good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.2
Injection:	
Morning	105.4
do	105.8
Afternoon	105.0
do	103.0

Lymphatics.— Post. mediastinal, calcareous and cheesy. Uterus, with foetus, female, four months.
Diagnosis.— Tuberculosis.

(16) Variety, Grade Jersey. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	102.0
Injection:	

Time.	Temperature.
Morning	101.2
do	106.8
Afternoon	104.8
do	102.0

Lymphatics.— Post. mediastinal, calcareous. Mammae, tubercular (calcareous).

Diagnosis.— Tuberculosis.

(17) Variety, Native. Age, 7 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.2
Injection:	
Morning	102.2
do	106.0
Afternoon	105.4

Lymphatics.— Post. mediastinal, calcareous, large.

Diagnosis.— Tuberculosis.

(18) Variety, Native. Age, 7 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.4
Injection:	
Morning	102.0
do	102.4
Afternoon	105.0
do	106.4

Lymphatics.— Retro-pharyngeal, calcareous. Post. mediastinal, four by three by two, calcareous and cheesy. Ant. mediastinal, and cardiac, calcareous and cheesy. Intestinal, calcareous.

Diagnosis.— Tuberculosis.

(19) Variety, Native. Age, 6 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	103.0
Injection:	
Morning	105.0
do	107.1
Afternoon	106.0
do	106.0

Lymphatics.— Inguinal, enlarged. Post. mediastinal, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(20) Variety, Native. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
do	102.0
Injection:	
Morning	102.0
do	105.0
Afternoon	106.8
do	106.0

Lymphatics.— Post. mediastinal, ant. mediastinal and other thoracic, calcareous. Left lung, calcareous. Liver, with calcareous foci. Uterus, with female foetus, three months.
Diagnosis.— Tuberculosis.

(21) Variety, Native. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	101.8
Injection:	
Morning	103.6
do	106.0
Afternoon	106.4
do	106.4

Lymphatics.— Post. mediastinal, ant. mediastinal, cardiac and other thoracic, calcareous. Right and left lungs, calcareous.
Diagnosis.— Tuberculosis.

(22) Variety, Native. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
do	102.2
Injection:	
Morning	102.0
do	102.4
Afternoon	104.0
do	105.0
do	105.0

Lymphatics.— Post. mediastinal, calcareous and broken down. Cardiac, calcareous. Right and left lungs, calcareous.
Diagnosis.— Tuberculosis.

(23) Variety, Native. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	102.0
Injection:	
Morning	102.0
do	103.4
Afternoon	104.0
do	104.6
do	104.4

Lymphatics.— Retro-pharyngeal, enlarged. Post. mediastinal and cardiac, calcareous.
Diagnosis.— Tuberculosis.

(24) Variety, Grade, Jersey. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	102.0
Injection:	
Morning	103.8
do	105.0
Afternoon	105.0
do	105.0
do	106.0

Lymphatics.— Post. mediastinal, calcareous.
Diagnosis.— Tuberculosis.

(25) Variety, ———. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
do	102.8
Injection:	

Time.	Temperature.
Morning	103.0
do	105.0
Afternoon	105.4
do	105.0

Lymphatics.— Post. mediastinal, calcareous.
Uterus, with foetus, male, about full time.
Diagnosis.— Tuberculosis.

MONROE COUNTY.

Herd of F. W. Hawley. Pittsford, December 31, 1893.
(1) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	102.4
do	104.2
do	106.0

Lymphatics.— Retro-pharyngeal, enlarged, yellow, cheesy masses. Prescapular, hyperplastic. Post. mediastinal, two by one by five, cheesy and calcareous. Ant. mediastinal, right bronch., calcareous. Cardiac, calcareous and cheesy. Other thoracic, numerous, were enlarged, cheesy and calcareous. Hepatic, enlarged and cheesy. Intestinal, cheesy, nut-size nodules (numerous). Right lung, prin. lobe, cocoanut size, four by four by three, contents soft and purulent; ant. lobe, purulent and cheesy. Spleen, nut-size sodules, cheesy. Uterus, tuberculous. Foetus of two months, female.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	
Morning	105.0
do	106.6

Lymphatics.—Retro-pharyngeal, one calcareous nodule. Post. mediastinal, calcareous matter. Ant. mediastinal and cardiac, nothing found. Other thoracic, very small points. Intestinal, calcareous and greeny mass. Foetus, bull, about full term.
Diagnosis.—Tuberculosis.

(3) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperatur
Evening	103.
Injection:	
Morning	103.
do	105–
do	107–

Lymphatics.—Retro-pharyngeal, white, hyperplastic areas. Post. mediastinal, cheesy, yellow, soft deposits. Ant. mediastinal and cardiac, nothing found. Other thoracic, hyperplastic.
Diagnosis.—Tuberculosis.

(4) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Tempera
Evening	1
Injection:	

Lymphatics.— Post. mediastinal enlarged, grayish nodules, and miliary tubercles. Ant. mediastinal, nothing found. Cardiac, normal. Other thoracic, enlarged, calcareous deposits. Right lung, ant. lobe, nut-size, cheesy center. Liver abscess, creamy contents, not tubercular.

Diagnosis.— Tuberculosis.

(5) Variety, Grade Jersey. Age, ———. Sex, ———.

Condition ———.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	———
Morning	102.6
do	103.8
do	106.0

Lymphatics.— Retro-pharyngeal, enlarged. Serous membranes, no calcareous deposits found. Uterus, with foetus, bull, six months.

Diagnosis.— Tuberculosis.

(6) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	———
Morning	103.1
do	103.0
do	103.6

Lymphatics.— Retro-pharyngeal, enlarged. Post. mediastinal, pea-size, calcareous deposit. Uterus, with a seven months' foetus, bull. Creamy abscess, with white contents between, and diaphragm.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	104.0
Injection:	———
Morning	105.6
do	106.0

Lymphatics.— Retro-pharyngeal, hyperplastic. Cardiac, pea-size tubercle, calcareous. Intestinal, with numerous limy deposits. Serous membranes.— Mesenteries, with neoplastic growths with cheesy centers. Uterus, with nine months' foetus, bull. Mammae, tuberculous.

Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	102.4
do	104.0
do	105.0

Lymphatics.— Retro-pharyngeal, hyperplastic. Post. mediastinal, one by two and a half by one and a half. Abscess purulent and calc. Ant. mediastinal, creamy pus and calcareous matter. Cardiac, one and half inches diam., purulent and calcareous. Other thoracic, cheesy contents. Right lung, ant. lobe, cheesy deposits, purulent. Left lung, numerous pea-size deposits. Uterus, aborted.

Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	104.4
do	106.0

Lymphatics.—Post. mediastinal, enlarged, purulent and calcareous. Ant. mediastinal, right bronch., enlarged, hyperplastic. Cardiac, two and a half inches diameter, cavity soft and purulent. Other thoracic, enlarged and calcareous. Hepatic, calcareous, one-quarter inch foci. Lung, right, prin. lobe, nut-size foci.

Diagnosis.—Tuberculosis.

(10) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	———
Morning	104.5
do	105.0

Lymphatics.—Retro-pharyngeal, hyperplastic. Liver, calcareous mass. Uterus, female foetus, five and a half months.

Diagnosis.—Tuberculosis.

(11) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.7
Injection:	———
Morning	104.0
do	105.2

Lymphatics.— Post. mediastinal, one-third-inch diameter nodule, calcareous and yellow. Cardiac and ant. mediastinal, nothing found. Other thoracic, calcareous. Uterus, with bull foetus, eight months.

Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	104.
do	106.

Lymphatics.— Post. mediastinal, two by one and a half inch, calcareous. Cardiac, two by two inch, calcareous. Other thoracic, except ant. mediastinal, two by one inch calcareous. Hepatic, cheesy nodules. Intestinal, two inches diameter, calcareous and cheesy. Right lung, princ. lobe, one calcareous nodule half inch diameter; other cheesy. Liver, three nodules, calcareous. Uterus with foetus, bull, seven to eight months.

Diagnosis.— Tuberculosis.

(13) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.9
Injection:	
Morning	104.0
do	106.2

Lymphatics.— Retro-pharyngeal, two calcareous, miliary tubercles, very small, much affected. Prescapular, enlarged. Post. and ant. mediastinal, pea-sized, yellow and cheesy. Cardiac, calcareous and cheesy. Intestinal, calcareous. Uterus, with foetus, five months.

Diagnosis.— Tuberculosis.

(14) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	———
Morning	104.6
do	105.2

Lymphatics.— Ant. mediastinal, two calcareous, one inch diameter. Cardiac, calcareous deposits. Right lung, pea-sized, nodule (post lobe).
Diagnosis.— Tuberculosis.

(15) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time	Temperature.
Evening	101.2
Injection:	———
Morning	101.8
do	103.2
do	106.2

Lymphatics.— Retro-pharyngeal, hyperplastic. Prescapular, hyperplastic. Post. mediastinal, half-inch, calcareous mass.
Diagnosis.— Tuberculosis.

(16) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time	Temperature.
Evening	102.8
Injection:	———
Morning	103.0
do	105.4

Lymphatics.—Post. mediastinal, three-quarter-inch diameter, calcareous mass and other small calcareous deposits. Right lung, ant. lobe, one and a half inch diameter, pus cavity. Uterus, with bull foetus, four months.

Diagnosis.—Tuberculosis.

(17) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	106.4
do	107.4

Lymphatics.—Retro-pharyngeal, enlarged. Post. mediastinal, eight by three by one and a half inches, calcareous deposit. Cardiac, two by three inches, calcareous deposit. Other thoracic, very badly calcareous. Right lung, princ. lobe, three and a half by four and a half inches, hard, cheesy and other deposits. Left lung, princ. lobe, one inch calcareous mass, other nodules. Liver, three-fourths inch mass in substance and outside. Uterus, normal.

Diagnosis.—Tuberculosis.

(18) Variety, Jersey. Age, ———. Sex, male.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	102.0
do	105.4
do	106.0

Lymphatics.—Retro-pharyngeal, calcareous deposits. Post. mediastinal, enlarged, four by one and a half by two inches, *calcareous* deposit. Right bronch., one-third inch, calcareous

foci, nut size. Cardiac, two and a half inches diameter, calcareous deposit. Right lung, three nut-size, two-thirds inch, calcareous deposits. Left lung, ant. lobe, several calcareous and cheesy deposits.

Diagnosis.— Tuberculosis.

(19) Variety, Jersey. Age, ———. Sex, male.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	———
Morning	103.8
do	105.4

Lymphatics.— Retro-pharyngeal, enlarged, hyperplastic. Post. mediastinal, three by one inches, calcareous, purulent. Ant. mediastinal, enlarged, calcareous, purulent. Cardiac, two by two inches, calcareous, purulent. Other thoracic, calcareous and purulent. Right lung, princ. lobe, one by one inch, calcareous nodule. Other pea-size nodules.

Diagnosis.— Tuberculosis.

(20) Variety, Jersey. Age, ———. Sex, male.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	———
Morning	105.4
do	106.4

Lymphatics.— Post. mediastinal, pea-size foci, other, one and three-fourths inches, calcareous. Ant. mediastinal, calcareous foci; left bronch., hen's egg size. Right lung, two inches diameter, nodule. L. lung, size of hen's egg, purulent and calcareous.

Diagnosis.— Tuberculosis.

(21) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	103.4
do	104.8
do	106.0

Lymphatics.— Retro-pharyngeal, hyperplastic. Inguinal, hyperplastic. Post. mediastinal, scattered, purulent nodules. Cardiac, calcareous deposits. Hepatic, hyperplastic. Right lung, ant. lobe, small calcareous deposits. Uterus, with bull foetus, five months.

Diagnosis.— Tuberculosis.

(22) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature
Evening	101.8
Injection:	———
Morning	101.8
do	104.2
do	105.8

Lymphatics.— Retro-pharyngeal, very large. Post. mediastinal, two and a half inches diameter, contents soft and cheesy. Cardiac, several foci, pea size. Hepatic, calcareous. Intestinal, cheesy and very much enlarged. Right lung, med. tip, fresh invasion, cheesy deposit, two inches long. Left lung, princ. lobe, one pea-size nodule. Spleen, very large, cheesy nodule.

Diagnosis.— Tuberculosis.

(23) Variety, Jersey. Age, ———. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	102.0
do	102.9
do	107.0
Afternoon	105.6

Lymphatics.—Retro-pharyngeal, both with pea-size calcareous deposits. Inguinal, enlarged. Post. mediastinal, numerous half-inch calcareous deposits. Ant. mediastinal, calcareous deposits. Cardiac, three-fourth inch, calcareous focus. Hepatic, numerous calcareous and cheesy foci. Intestinal, calcareous deposits. Right lung, princ. lobe, four by three, contents purulent. Liver, calcareous, pea-size area. Spleen, neoplastic growths. Uterus normal. No foetus.

Diagnosis.—Tuberculosis.

(24) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	101.4
do	102.4
do	106.0
Afternoon	104.6

Lymphatics.—Retro-pharyngeal, four or five cheesy and calcareous deposits. Uterus, with foetus, female, four months.

Diagnosis.—Tuberculosis.

(25) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	103.6
do	107.0
do	107.6

Lymphatics.—Retro-pharyngeal, numerous pea-sized areas. Post. mediastinal, enlarged, cheesy and calcareous. Cardiac, one millet seed nodule. Uterus, with bull foetus, eight months.
Diagnosis.—Tuberculosis.

(26) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	103.0
do	103.2
do	105.0

Lymphatics.—Post. mediastinal, one pin-point calcareous deposit, tubercular. Foetus, bull, two weeks
Diagnosis.—Tuberculosis.

(27) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	103.0
do	102.6
do	105.0

Lymphatics.— Retro-pharyngeal, calcareous deposits. Prescapular, hyperplastic. Intestinal, calcareous deposits. Uterus, foetus, bull, six months.

Diagnosis.— Tuberculosis.

(28) Variety, Jersey. Age, ———. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	103.0
do	106.0
do	106.4

Lymphatics.— Prescapular, two by three-fourths-inch, calcareous and cheesy mass. Uterus, with bull foetus, six weeks. Axillary glands, purulent foci and calcareous.

Diagnosis.— Tuberculosis.

(29) Variety, Jersey. Age, ———. Sex, female.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	101.8
do	105.0

Lymphatics.— Post. mediastinal, enlarged, calcareous deposits. Intestinal, calcareous deposits few. Serous membranes.—Mesenteries, neoplastic growths. Uterus, with bull foetus, five months. Fringe on border of lung.

Diagnosis.— Tuberculosis.

(30) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	101.
do	104.
do	106.

Lymphatics.— Inguinal, enlarged. Post. mediastinal, six by two and a half by one and a half inches, calcareous. Ant. mediastinal, calcareous deposit. Intestinal, calcareous deposits, one half inch; other abdominal, six calcareous deposits. Right lung, four by three by three inches, hard and cheesy; other smaller centers. Left lung, few calcareous and cheesy nodules. Uterus, with foetus, bull, three months. Mammae, tubercular lesions.

Diagnosis.— Tuberculosis.

(31) Variety, Jersey. Age, ———. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	102.5
do	103.8
do	105.2

Lymphatics.— Post. mediastinal, enlarged, half by three-fourths inches, twelve calcareous foci. Ant. mediastinal, two in. diameter, calcareous, nearly confluent. Cardiac, nothing. Other thoracic, confluent. Liver, cheesy, half inch, center. Uterus, bull foetus, five weeks.

Diagnosis.— Tuberculosis.

(32) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	101.8
do	102.0
do	105.2
Afternoon	104.0

Lymphatics.— Post. mediastinal, enlarged, calcareous and cheesy masses. Intestinal, calcareous masses. Right lung, post. lobe, nut-size, mass of cheesy, purulent matter. Uterus, foetus, bull, four months.

Diagnosis.— Tuberculosis.

(33) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	
Morning	103.4
do	104.0
do	107.0

Lymphatics.— Retro-pharyngeal enlarged, one and one-fourth, abscess, purulent. Inguinal, enlarged. Post. mediastinal, nothing. Cardiac, few cheesy, yellow, three-fourth-inch centers, other centers, smaller. Right lung, post. border, two by one, discrete. Liver, yellowish, fatty degeneration. Uterus, contents, yellow, fibrous, soft and yielding.

Diagnosis.— Tuberculosis.

(34) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.5
Injection:	———
Morning	101.2
do	103.0
do	106.0

Lymphatics.— Post. mediastinal, enlarged, ant. mediastinal, half inch, calcareous; others, small. Cardiac, soft, cheesy matter. Intestinal, few, small, cheesy deposits. Uterus, six weeks' foetus.

Diagnosis.— Tuberculosis.

(35) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.

Lymphatics.— Prescapular, hyperplastic, translucent, miliary areas. Post. mediastinal, cheesy. Ant. mediastinal, very cheesy, three by two by two and a half inches. Cardiac, one-third inch nodule. Caseous, non-purulent. Hepatic, two small nodules. Intestinal, nut-size nodules, cheesy and calcareous. Other abdominal, nut-size nodules. Right lung, two and a half inches, nodules in princ. lobe, and two pea-size nodules in ant. lobe. Left lung, several half inch nodules in princ. lobe. Liver, six nodules. Uterus, foetus, six months.

Diagnosis.— Tuberculosis.

(36) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	102.0
do	105.6
do	106.2

Lymphatics.—Retro-pharyngeal, enlarged. Post. mediastinal, enlarged, yellow, cheesy matter. Right lung, post. lobe, one-third inch nodules, calcareous. Liver, attached to diaphragm, old adhesion. Pleura thickening.

Diagnosis.—Tuberculosis.

(37) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.3
Injection:	———
Morning	103.0
do	105.6
do	105.6

Lymphatics.—Retro-pharyngeal, both enlarged, hard, calcareous and cheesy. Post. mediastinal, six by three by four, calcareous deposits. Ant. mediastinal, deposits numerous and calcareous. Cardiac, three and a half, calcareous and cheesy. Hepatic, calcareous, and very gritty. Intestinal, calcareous and cheesy. Renal G. cheesy and calcareous. Right lung, princ. lobe four by four inches, purulent, cheesy, scattered nodules throughout. Left lung, do. Liver, four nodules, two and one-half inches in diameter, calcareous. Spleen, calcareous nodule. Uterus, with female foetus, near full term.

(38) Variety, Jersey. Age, ———. Sex, female.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	100.4
Injection:	———
Morning	102.2
do	105.0
do	104.5

Lymphatics.— Retro-pharyngeal, enlarged. Inguinal, enlarged. Post. mediastinal, one-quarter-inch, calcareous mass. Ant. mediastinal, small pea-size mass, and other fibrous masses. Uterus, foetus, bull, three months.

Diagnosis.— Tuberculosis.

(39) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	102.2
do	103.0
do	105.0

Lymphatics.— Post. mediastinal, one inch, calcareous deposit becoming purulent.

Diagnosis.— Tuberculosis.

(40) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	102.0
do	102.0
do	104.4
Afternoon	106.0

Lymphatics.— Retro-pharyngeal, pea-size foci. Cardiac, pea-size, calcareous deposit. Hepatic, enlarged. Liver, small abscess, contents, white and cheesy. Foetus, female, six months.

Diagnosis.— Tuberculosis.

(41) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	101.2
do	102.8
do	105.0
Afternoon	104.2

Lymphatics.—Retro-pharyngeal, enlarged. No cheesy or calcareous deposits. Fringe on border of lung. Uterus with foetus, bull, four weeks.
Diagnosis, by tuberculin test.—Tuberculosis.

(42) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	102.8
do	105.6
do	106.4

Lymphatics.—Retro-pharyngeal, enlarged. Post. mediastinal, four by two by one, calcareous and cheesy. Cardiac, two inches diameter, cheesy. Intestinal, calcareous and cheesy. Right lung, prin. lobe, calcareous. Med. lobe, three by one and one-half cheesy and purulent. Left lung, princ. lobe, five by four by four, soft, cheesy and purulent. Liver, one inch diameter, nodule. Six other masses. Spleen, one inch mass. Uterus, with foetus, female, four months.
Diagnosis.—Tuberculosis.

(43) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.
Injection:	
Morning	102
do	105
do	105

Lymphatics.— Post. mediastinal. Scattered nodules, miliary, calcareous. Cardiac, yellow and calcareous nodules, very numerous. Liver, pea-size tubercle. Uterus, with foetus, four weeks.
Diagnosis.— Tuberculosis.

(44) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	99. 6
Injection:	
Morning	101. 8
do	102. 8
do	105. 0
Afternoon	105. 4

Lymphatics.— Post. mediastinal, calcareous foci. Ant. mediastinal and cardiac, nothing found. Other thoracic, one-fourth inch calcareous foci, numerous. Left lung, post. border, one-eighth inch. Uterus, with bull foetus, three weeks.
Diagnosis.— Tuberculosis.

(45) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	103.6
do	106.0
do	107.2

Lymphatics.— Retro-pharyngeal, cheesy, half-inch diam. Post. and ant. mediastinal, four by two by three, cheesy and calcareous. Cardiac, very large, calcareous. Hepatic, cheesy, two-inch area nodules. Intestinal, cheesy masses, large and numerous. Right lung, two inches area. Left lung, five or six two-inch areas in ant. post. lobe. Liver, six half-inch foci. Uterus with foetus, female, five months.

Diagnosis.— Tuberculosis.

(46) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	101.4
do	102.0
do	103.4
Afternoon	105.0

Lymphatics.— Retro-pharyngeal, hyperplastic. Post. mediastinal, four by three by two inches, calcareous deposit. Ant. right bronchial, calcareous and cheesy. Cardiac, four by four by two and a half inches. Other thoracic, calcareous deposits. Hepatic, calcareous deposit. Intestinal, one by one and a half, calcareous and cheesy. Right lung, princ. lobe, two by two, purulent and soft. Med. lobe, one and a half diam., yellow, soft.

Diagnosis.— Tuberculosis.

(47) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	102.2
do	104.8
do	105.0

Lymphatics.— Retro-pharyngeal, prescapular, post. and ant. mediastinal and cardiac, enlarged. Uterus, with bull foetus, five weeks.

Diagnosis.— Tuberculosis.

(48) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	101.8
do	105.0
do	105.4

Lymphatics.— Retro-pharyngeal, hyperplastic. Post. mediastinal, minute, cheesy and calcareous. Cardiac, calcareous and cheesy. Intestinal, three and one-half, hard, cheesy, deposits, numerous. Right lung, princ. lobe, cheesy. Ant. lobe, miliary tubercles. Left lung, med. lobe, two-inch nodule, cheesy. Ant. lobe, one-inch area, and others on surface of pleura.

Diagnosis.— Tuberculosis.

(49) Variety, Jersey. Age, ———. Sex, female.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	103.2
do	106.4
do	107.0

Lymphatics.— Prescapular, enlarged. Post. mediastinal, six by one by one; contents, calcareous. Ant. mediastinal, calcareous and cheesy. Intestinal, calcareous. Right lung, post. lobe, one inch diam., calcareous and cheesy. Left lung, post. lobe, seven or eight pea-size nodules. Liver, one-half inch thick, firm, fibrous capsule. Uterus, female foetus, eight months.

Diagnosis.— Tuberculosis.

(50) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	104.0
do	105.0
do	107.4

Lymphatics.— Retro-pharyngeal, three and one-half inches diameter, calcareous and cheesy. Post. mediastinal, six by three and one-half by three, calcareous and cheesy. Ant. mediastinal, pea-size mass. Cadiac, one inch, cheesy mass. Other thoracic, very much enlarged. Intestinal and other abdominal with minute yellow masses. Right lung, princ. lobe, two inches, calcareous and cheesy. Ant. lobe, two and one-half inches, calcareous mass. Left lung, post. lobe, calcareous and cheesy. Liver, with fourteen calcareous centres. Uterus, with bull foetus, five months. Other bronchial glands, calcareous and cheesy, three by three and one-half.

Diagnosis.— Tuberculosis.

(51) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.2
do	104.4
do	106.0

Lymphatics.— Post. mediastinal, calcareous and cheesy foci, five by three by two, purulent. Ant. mediastinal, calcareous. Cardiac, one inch in diameter, few masses.

Organs.—Right lung, ant. lobe, with many masses. Med. lobe, with many masses calcareous. Post. lobe, calcareous. Left lung, princ. lobe, with one-inch nodules.

Diagnosis.— Tuberculosis.

(52) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	102.8
do	104.
do	105.

Lymphatics.— Post. mediastinal, calcareous and cheesy. Cardiac, calcareous and cheesy. Intestinal, very large, calcareous and cheesy one inch diameter. Uterus, with male foetus, seven and one-half months.

Diagnosis.— Tuberculosis.

(53) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	104.0
Injection:	
Morning	103.8
do	107.0
do	107.0

Lymphatics.— Retro-pharyngeal, with few yellow, cheesy foci. Post. mediastinal, with five by two by three inches calcareous foci. Cardiac, calcareous and cheesy. Ant. mediastinal, two and one-half inches diameter, calcareous foci. Other thoracic, with deposits calcareous and cheesy. Hepatic, with scattered calcareous foci. Intestinal, numerous foci, one inch diameter calcareous and cheesy. Other abdominal, calcareous and cheesy.

Organs.— Right lung, ant. lobe, calcareous and cheesy. Left lung, do. Liver, with two calcareous deposits. Uterus, with female foetus, five months old.

Diagnosis.— Tuberculosis.

(54) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	103.4
do	103.2
do	105.0

Lymphatics.— Post. mediastinal, calcareous and cheesy deposits. Uterus, with male foetus, eight months. Fringe on border of lungs.

Diagnosis.— Tuberculosis.

(55) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	———
Morning	103.0
do	105.0
do	107.2

Lymphatics.— Inguinal, hyperplastic. Post. mediastinal, ten by four by four inches, gritty, calcareous and cheesy. Ant. mediastinal, orange-size, calcareous mass. Cardiac, calcareous and cheesy. Other thoracic, numerous other masses, one and a half, calcareous. Intestinal, egg-size, calcareous mass. Right lung, with calcareous deposits, four by three by two and a half

inches, others broken down and purulent. Left lung, like right. Broken down and purulent.

Uterus, with female foetus, four and a half months.

Diagnosis.— Tuberculosis.

(56) Variety, ———. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	———
Morning	102.4
do	105.0
do	107.0

Lymphatics.— Retro-pharyngeal, with calcareous, cheesy and purulent deposits. Prescapular, hyperplastic. Post. mediastinal, calcareous deposits, becoming purulent. Ant. mediastinal, calcareous deposit. Right lung, princ. lobe, with few purulent points. Spleen, with neoplastic growth. Uterus, with male foetus, six months.

Diagnosis.— Tuberculosis.

(57) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	102.4
do	105.8
do	107.2

Lymphatics.— Retro-pharyngeal, hyperplastic. Post. mediastinal, small, calcareous foci, cheesy. Ant. mediastinal, two by one by one inches, foci, calcareous and cheesy. Right lung, med. lobe, nut size, calcareous and purulent. Liver, with tubercle.

Diagnosis.— Tuberculosis.

(58) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	102.4
do	103.8
do	106.0

Lymphatics.— Cardiac, numerous pin-head size, cheesy foci. Uterus, with male foetus, four weeks.
Diagnosis.— Tuberculosis.

(59) Variety, Jersey. Age, ———. Sex, female.
Condition ———.
Tuberculin experiment:

Time.	Temperature.
Evening	100.6
Injection:	———
Morning	101.8
do	103.4
do	107.2

Lymphatics.— Ant. mediastinal, calcareous and cheesy. Intestinal, large, nut-size, calcareous and cheesy foci. Right lung, med. lobe, attached to diaphragm. Liver, seven pea-size, calcareous foci.
Diagnosis.— Tuberculosis.

(60) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	103.4
do	106.4
do	106.6

Lymphatics.— Post. mediastinal, five by two and a half inches, cheesy and calcareous. Ant. mediastinal, cheesy and calcareous. Cardiac, two-inch diam., three-inch area, calcareous. Hepatic, two and a half foci, calcareous. Intestinal, calcareous and cheesy, one-inch diam. Other abdominal, calcareous and cheesy. Right lung, princ. lobe, with purulent abscess three inches diam. Liver, with fibrous center, two inches diam. Uterus, with female foetus, four months.

Diagnosis.— Tuberculosis.

(61) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	102.6
do	102.8
do	105.6

Lymphatics.— Post. mediastinal, few calcareous and cheesy. Kidneys, cyst very large. Uterus, with female foetus, eight months.

Diagnosis.— Tuberculosis.

(62) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	102.4
do	105.6
do	105.4

Lymphatics.— Hepatic, one-fourth cheesy. Intestinal, one-inch diameter, calcareous and cheesy. Other abdominal, cal—

Caseous and cheesy. Liver, with millet-seed tubercle. Uterus, with foetus, female, four and a half months.

Diagnosis.— Tuberculosis.

(63) Variety, Jersey. Age, ———. Sex, female.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	102.2
do	105.2
do	106.4

All external glands enlarged.

Lymphatics.— Retro-pharyngeal, hyperplastic. Hepatic, calcareous deposit, millet-seed size. Intestinal, one inch in diameter, calcareous and cheesy. Liver, cheesy and calcareous. Uterus, with male foetus, six months.

Diagnosis.— Tuberculosis.

(64) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	102.4
do	105.0
do	106.4

Lymphatics.— Post. mediastinal, enlarged, numerous calcareous, cheesy deposits, one and a half inches diameter. Cardiac, numerous, calcareous deposits. Other thoracic, calcareous and cheesy. Hepatic, calcareous deposits. Intestinal, calcareous, cheesy, three-fourths inch foci. Other abdominal, with many calcareous foci. Right lung, princ. lobe, and ant. lobe, with numerous, calcareous, half-inch foci. Left lung, do. Liver, with twelve scattered, half-inch areas, calcareous.

Diagnosis.— Tuberculosis.

(65) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	101.6
do	104.2
do	106.0

Lymphatics.—Retro-pharyngeal, enlarged. Post. mediastinal, with small calcareous masses. Ant. mediastinal, and cardiac, nothing found. Other thoracic, half-inch calcareous foci.
Diagnosis.—Tuberculosis.

(66) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	103.2
do	106.0
do	107.0

Lymphatics.—Retro-pharyngeal, three by two by two inches, creamy and calcareous. Inguinal, enlarged. Post. mediastinal, enlarged, calcareous foci. Mammae, tuberculous.
Diagnosis.—Tuberculosis.

(67) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperatu—
Evening	101—
Injection:	
Morning	102.
do	103.
do	105.

Lymphatics.—Retro-pharyngeal, enlarged. Post. mediastinal, eight by three by two inches, calcareous. Ant. mediastinal, calcareous. Cardiac, calcareous and cheesy. Intestinal, calcareous, three-fourths-inch diameter. Other abdominal, one-inch calcareous deposit. Right lung, princ. lobe, half-inch, cheesy and calcareous deposit.

Diagnosis.—Tuberculosis.

(68) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	103.4
do	105.2
do	106.0

Lymphatics.—Post. mediastinal, four by one by one inch, cheesy and calcareous. Cardiac, two and one-half by one by two inches, calcareous and cheesy. Left lung, princ. lobe, three-fourths inch, calcareous mass.

Diagnosis.—Tuberculosis.

(69) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	100.4
Injection:	———
Morning	101.8
do	103.2
do	106.2

Lymphatics.—Retro-pharyngeal, pea-size, cheesy, nodules. Post. mediastinal, calcareous deposits. Intestinal, calcareous deposits.

Diagnosis.—Tuberculosis.

(70) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	102.2
do	102.2
do	103.2
Afternoon	105.0

Lymphatics.—Retro-pharyngeal, with half-inch cheesy mass, purulent, other smaller. Post. mediastinal, one focus, size of millet seed. Ant. mediastinal, nothing found. Cardiac and other thoracic, with calcareous deposits. Intestinal, with calcareous deposits. Right lung, princ. lobe, one-inch calcareous area. Uterus, with female foetus, five and one-half months.
Diagnosis.—Tuberculosis.

(71) Variety, Jersey. Age, ———. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.0
do	102.8
do	105.0

Lymphatics.—Retro-pharyngeal and prescapular, enlarged. Post. mediastinal, pea-size, cheesy and calcareous. Ant. mediastinal, cheesy and calcareous. Cardiac, calcareous deposit. Uterus, female foetus, six months.
Diagnosis.—Tuberculosis.

(72) Variety, Jersey. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	102.2
do	104.6
do	107.0

Lymphatics.—Retro-pharyngeal, slightly enlarged. Cardiac, two-inch area, calcareous. Post. and ant. mediastinal, nothing. Other thoracic, with one and a half-inch calcareous nodules. Right lung, ant. lobe, with one and a half-inch nodule, calcareous and cheesy.

PATHOLOGICAL EXAMINATION OF SPECIMENS.

(1) Specimen from Prescapular gland.—Gross appearance of hyperplasia, with lighter circumscribed areas at the periphery of the gland. Microscopical examination shows these areas to consist of spheroidal cell, infiltration with diffuse, cheesy degeneration. The gland is consequently tubercular.

(5) Lymph. glands show gross and microscopical appearances, almost identical with those observed in No. 1. They are consequently tubercular.

(8) Mesenteric lymph. gland.—Gross appearance very similar to that in No. 1, but lesion more definite and more pronounced. The microscopical examination shows only slight evidence of tuberculosis, however, in the occasional presence of small, miliary tubercles, consisting chiefly of epithelioid cells. Slight cheesy degeneration.

(10) Lymph glands, source unknown. Both show tuberculosis in early stage.—Miliary tubercles with cheesy areas, small.

(21) Ant. mediastinal gland shows gross appearance of hyperplasia with a few circumscribed, yellowish areas, thought to be cheesy tubercles. Microscopical examination shows numerous small, miliary tubercles, chiefly epithelioid cells, some showing slight cheesy degeneration. One larger tubercular area found about four inches in diameter, consisting of conglomerate tubercles with irregular, cheesy center.

(26) Microscopical examination shows this to be a portion of liver, in which there is a rather large nodule, consisting of rather cellular connective tissue, with distinct, cheesy areas in it. This is a typical picture of slowly-developing tubercle, and the presence of the calcification noticed on the gross examination shows this to have been chronic tubercle.

(35) Inguinal and renal glands show gross appearance of hyperplasia only. Microscopical examination shows in both rather diffuse, cheesy areas, with much spheroidal cell infiltration. The glands are both tubercular.

(57) Small nodule in liver.— Microscopical examination shows it to consist of a number of miliary foci of tubercular inflammation with small, cheesy areas.

(58) A portion of the left bronchial gland showed gross appearance of hyperplasia only. Microscopical examination disclosed an area of conglomerate tubercle, cheesy in centre, about three inches in diameter; and numerous smaller miliary tubercles, composed chiefly of epithelioid cells.

(72) Source not indicated.— Examination shows it to be a portion of lung in condition of atefectasis. The air vesicles are small, are lined with almost cuboidal epithelium, and the stroma of the lung is much in excess. No evidence of tuberculosis.

Remarks of inspectors and others:

Mr. Hawley requested the examination of his herd. In applying for the same, he writes: "I am informed that there have been found cases of tuberculosis among the milch cows

in this State. Many of my herd of Registered Jerseys have been, during the last summer, at the World's Fair, for many weeks; also at the State Fair at Syracuse, and at the Western New York Fair at Rochester. They have been brought in contact, as you will see, with many hundreds of animals from all sections of the country.

"Since the return of my herd to Pittsford Farms, I have noticed slight traces of incipient tuberculosis among several animals, which were promptly killed, and for the purpose of having a thorough and complete examination of the herd made, I wish your Board would designate an inspector to thoroughly examine every single animal in it, by subjecting them to the most critical examination, and also with the tuberculin test."

The inspector remarks, "I think it just and proper that something be said here in regard to the mode of contagion of this herd. The animals are fed from the floor, and so eat from one another. As for the water supply, the troughs used for water were very dirty and gave off a bad odor. Each should have separate mangers to eat from and separate pails for watering."

Herd of Myron Highby. Penfield, February 9, 1894.

(1) Variety, Registered Jersey. Age, 2 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.4
11 p. m.	101.3
11.45 p. m., Injection:	
6.45 a. m.	100.3
8.45 a. m.	101.6
10.45 a. m.	102.4
12.45 p. m.	104.8
2.45 p. m.	104.1
4.45 p. m.	104.2
6.45 p. m.	103.1
8.45 p. m.	101.6

Lymphatics.— Retro-pharyngeal, enlarged. Post. mediastinal, slightly enlarged. Left lung, principal lobe, with one small, one-third-inch focus, probably tuberculous. The focus had lightish pus in centre; the periphery seemed caseous. I thought it possible that it had opened into bronchus. The doubt is upon the character of the node.

Diagnosis.— Tuberculosis.

(2) Variety, Registered Jersey. Age, 2 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.8
11 p. m.	101.6
11.45 p. m., Injection:	
6 a. m.	101.6
8.45 a. m.	102.3
10.45 a. m.	103.2
12.45 p. m.	104.4
2.45 p. m.	104.8
4.45 p. m.	103.2
6.45 p. m.	102.3
8.45 p. m.	101.8

Lymphatics.— Post. mediastinal, five by three by two inches, caseous and calcareous. Cardiac, two and a half inches, caseous; contents, discrete. Ant. mediastinal, normal. Other thoracic, affected. Intestinal, one and a half inches, calcareous and caseous centre. Right lung, second cephalic lobe, consolidated, seven by five and a half by three and a half, caseous and calcareous. Left lung, princ. lobe, pea-size nodules.

Diagnosis.— Tuberculosis.

(3) Variety, Registered Jersey. Age, 3 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	100.6
11 p. m.	100.8
11.45 p. m., Injection:	
6.45 a. m.	100.8
8.45 a. m.	101.4
10.45 a. m.	103.0
12.45 p. m.	108.6
2.45 p. m.	106.4
4.45 p. m.	105.8
6.45 p. m.	104.8
8.45 p. m.	103.6

Lymphatics.— Retro-pharyngeal, enlarged, hyperplastic. Inguinal, enlarged. Post. mediastinal, four by two inches; contents cheesy, agglomerated. Serous membranes, mesenteries, with neoplasms. Left lung, princ. lobe, abscess two and a half by two inches, caseous. Uterus, with female foetus, eight months.

Diagnosis.— Tuberculosis.

(4) Variety, Registered Jersey. Age, 5 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.0
11 p. m.	100.4
11.45 p. m., Injection:	
6.45 a. m.	100.0
8.45 a. m.	101.0
10.45 a. m.	101.0
12.45 p. m.	101.0
2.45 p. m.	102.6
4.45 p. m.	103.6
6.45 p. m.	103.0
8.45 p. m.	101.8

Lymphatics.— Retro-pharyngeal, prescapular, and inguinal, enlarged. Post. mediastinal, enlarged and fibrous. Cardiac, two-thirds-inch diameter, one-quarter-inch caseous foci. Serous membranes.— Right pulmonary, neoplasm. Left lung, ant. portion of ant. lobe, necrotic, caseous focus one and one-half by one inch diameter. Spleen, with neoplasms. Uterus, apparently calved recently.

Diagnosis.— Tuberculosis.

(5) Variety, Registered Jersey. Age, 5 years. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.5
11 p. m.	102.2
11.45 p. m., Injection:	
6.45 a. m.	105.2
8.45 a. m.	106.5
10.45 a. m.	105.6
12.45 p. m.	106.3
2.45 p. m.	106.6
4.45 p. m.	106.2
6.45 p. m.	104.5
8.45 p. m.	104.8

Lymphatics.— Retro-pharyngeal, three-quarter-inch caseous node, and many one-eighth inch foci. Pregenal, enlarged, reddened. Post. mediastinal, six by three by two, caseous, discrete centres. Cardiac, three-inch diameter by two and one-half by one-third inch caseous centres. Ant. mediastinal, normal. Other thoracic, infected. Hepatic, calcareous foci. Intestinal, caseous, calcareous nuclei with multiple, miliary tubercles. Right lung, with purulent abscess three and one-half by two inches, another, one and one-half inches; another, one inch in princ. lobe; other small foci in cephalic lobe. Left lung, princ. lobe attached by old fibrous adhesion. Abscess, five by five by three; another six by four by three, others emptying into trachea. No foetus.

Diagnosis.— Tuberculosis.

Remarks.— These cattle were purchased of Peer and Sunderlin, of Rochester, about two and one-half years ago. One other, purchased at that time, was killed last summer, because wasting away, and found to have knots on the lungs. This was a two-year-old heifer. It is reported that Peer and Sunderlin closed their partnership, and the other cattle were taken to Mr. McBride's at Irondequoit, where by advice of Dr. Drinkwater, I am told, a number were slaughtered later, presumably for this disease.

Mr. Higbie further reports, that he did not have the disease prior to the purchase of these cattle, and that he further sold two Jerseys which could not have had, nor have yet, any suspicion of tuberculosis, to make way for these finely-bred cattle. This herd furnishes proof of the desirability of inspecting breeders' herds early in our inspections, that the danger from these, as distributing centres, may be removed.

Herd of P. J. Coggswell. Brighton, February 15-16, 1894.

(1) Variety, Jersey. Age, 11 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning, 8 hours after	101.6
do 10 hours after	103.0
do 12 hours after	104.4
do 14 hours after	106.0
do 16 hours after	105.2
do 18 hours after	104.0

Lymphatics.— Post. mediastinal, one and one-half by one-half inch diameter focus, with smaller foci, large, cheesy, rather dry; in second, one one-half-inch focus, similar. Left bronch, one one-half-inch, cheesy, yellow focus, and several grayish foci. Glands, enlarged. Mesenteric, four to five, with tubercular deposits, all more or less cheesy. Serous membranes.— L. pulmonary, with one one and one-half-inch diameter flat pleural tubercle, on left caudal lobe. Trachea, one one-half-inch

tubercular ulcer at bifurcation. Right and left lungs, each with tubercular nodes up to three inches in diameter, soft, cheesy, purulent. Other smaller ones. Uterus, with foetus, one inch long.

Diagnosis.—Tuberculosis.

(2) Variety, Registered Jersey. Age, 8 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	100.
Injection:	
Morning	102.
do	104.
do	106.
Afternoon	105.
do	105.
do	104.

Lymphatics.—Post. mediastinal, several one-half-inch, caseous foci. Left bronchial, several yellowish, one-eighth to one-fourth inch foci. Right lung, caudal lobe, two to three inch, caseous mass; another, four to five inch diam. Left lung, caudal lobe, one one and a half inches, cheesy mass; another, a half inch. Uterus, with foetus, one and a half inches long.

Diagnosis.—Tuberculosis.

(3) Variety, Registered Jersey. Age, 6 years. Sex, female. Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	
8 hours after	102.1
10 do	105.2
12 do	106.2
14 do	107.2
16 do	107.0
18 do	106.0

Lymphatics.— Post. mediastinal, very large, entirely gritty, yellow, mortar-like mass. Cardiac, with number of one-eighth-inch foci. Ant. mediastinal, normal. Other thoracic, also gritty and slightly enlarged. Mesenteric, contain yellow, firm foci. Right and left lungs, each contains from six to seven large, almost completely cheesy foci, three to four inches in diameter. Ant. lobe of left lung, numerous small foci up to two inches in diameter. Uterus, with foetus, from four to five months.

Diagnosis.— Tuberculosis.

(4) Variety, Registered Jersey. Age, 2 years. Sex, female. Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
8 hours after	102.1
10 do	105.0
12 do	106.5
14 do	106.8
16 do	106.1
18 do	104.0

Lymphatics.— Retro-pharyngeal, hyperplastic. Prescapular and pregenal, with small, yellow foci, from one-sixteenth to one-eighth inch; enlarged, all with hyperplasia of follicles. Post. mediastinal, with one large, caseous focus, several one-eighth-inch foci. Left bronchial, with one focus. Portal, three containing foci. Mesenteric, one with a number of small, one-eighth-inch, firm, yellow foci. Pelvic abscess in walls of bladder. Left lung, princ. lobe, caudal tip, with focus, three-fourths inch, multiple, grayish foci, from one-sixteenth to one-eighth inch diameter.

Diagnosis.— Tuberculosis.

(5) Variety, Registered Jersey. Age, 14 years. Sex, female. Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	100.8
Injection:	———
8 hours after	101.8
10 do	102.1
12 do	103.8
14 do	105.8
16 do	105.6
18 do	104.2

Lymphatics.—Post. mediastinal, large, with many from one-eighth to one-fourth inch, yellow, discrete foci, firm, calcareous. Ant. mediastinal and cardiac, normal. Other thoracic, large. Mesenteric, with focus one-half inch in diameter, firm, caseous and calcareous. Right lung, with two small foci. Left lung, princ. lobe, with focus from one and a half to one inch of isolated, caseous focus. Uterus, with male foetus, two inches long, four weeks old.

Diagnosis.—Tuberculosis.

(6) Variety, Registered Jersey. Age, 9 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	100.8
11.30 p. m., Injection:	———
7.30 a. m.	101.6
9.30 a. m.	101.8
11.30 a. m.	101.6
1.30 p. m.	102.8
3.30 p. m.	103.8
5.30 p. m.	103.6

Lymphatics.— Left bronchial, with three small, one-eighth-inch firm, yellow foci. Uterus, with male, six weeks, eight inches long.

Diagnosis.— Tuberculosis.

(7) Variety, Registered Jersey. Age, 6 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
8 hours after	101.8
10 do	102.4
12 do	103.2
14 do	104.3
16 do	105.4
18 do	104.0

Lymphatics.—Cardiac, one yellow, cheesy focus, one eighth inch in diameter and one calcareous nodule. In ventral, thin border of liver, was abscess, with adhesions to neighboring organs; also a small nut-size abscess in third stomach. On wall of recticulum, neoplastic, inflammatory, tissue from one-half to one inch thick. Nails in reticulum. Uterus, with male foetus, four and one-half months.

Diagnosis.— Tuberculosis.

(8) Variety, Registered Jersey. Age, three years. Sex, female. Condition, fair.

Tuberculin experiment:

Evening	100.4
Injection:	
10 hours after	102.8
12 do	104.5
14 do	104.3
16 do	103.2
18 do	103.0

Lymphatics.— Right submaxillary, with white fibrous focus. Retro-pharyngeal, right, enlarged, with one one-half-inch, caseous focus and numerous, firm, one-eighth to one-fourth of an inch foci, projecting above cut. surface. Left, with few small, whitish foci. Prescapular, enlarged. Cardiac, slightly enlarged, having three to four foci, one-eighth to one-fourth inch diameter, firm, yellow, projecting. Hepatic, a few half-inch foci. Mesenteric, enlarged, containing foci, from one-eighth to one-half inch, necrotic and yellow. Serous membranes.— Left pulmonary, lungs attached to diaphragm and walls, old adhesions. Left lung, princ. lobe, with area, three by one inch in diameter, containing multiple tubercles, coalescing, one-eighth inch in diameter; one focus one-half inch in diameter, soft, caseous. Liver, adherent to diaphragm, abscess two inches in diameter, pus whitish, viscous.

Diagnosis.— Tuberculosis.

(9) Variety, Registered Jersey. Age, 3 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	100.6
Injection:	
10 hours after	101.6
12 do	102.2
14 do	103.4
16 do	105.8
18 do	105.2

Lymphatics.— Post. mediastinal, fibrous foci. Left bronchial, numerous, caseous, foci, yellow and firm, projecting, on section one-fourth inch in diameter. Lungs, adherent to walls and diaphragm by fibrous attachment. Recticulum, protrudes into thorax, through hernia of diaphragm. Uterus, with male foetus, six and one-half months old.

Diagnosis.— Tuberculosis.

Remarks.— During the tuberculin test, says the inspector, the temperature of all these cows rose from three to five nine-tenths

degrees above initial normal. If 101.8 had been chosen as normal, then all would have been two or more degrees above.

The fact that so few were found infected in so large a number of cattle is noticeable, and is believed to arise from the fact that Mr. Coggswell is a dealer, and frequently sells and buys new stock. Some of the worst affected have been on his place the longest; some of the least being comparatively recent comers.

None of the young stock were found affected. This is believed to arise from the fact that the owner is not only a breeder, but sells milk, and so the calves are not fed skim milk to the extent that prevails in butter herds. They are also kept separate from the old cattle. The stables are kept in good sanitary condition, and the owner's practice of purchasing and disposing of his cattle without keeping them a long time on the place, tends to keep the disease in check.

A few particulars of the history of the slaughtered animals are here given:

No. 1 came from Rochester; had been on the place five years, and sent into the country summers.

No. 2 came from Lockport; was bought in 1891; spent each summer on farm in Penfield, returning in winter.

No. 3 had been on the place since two years old; had been in Chicago eight months.

No. 4. Her dam had been slaughtered, but no disease found on her. She came from Cape Place, Penfield; had been on the place since November, 1893; had been there before once only to be served.

No. 5 had been on the place a year or two; was purchased from a party in Gasport.

No. 6 spent the last two summers at a farm in Penfield; had been, three-fourths of her life, around country; was bought as a yearling in New York city, and bred near St. Ann, near Montreal.

No. 7 had been on the place since last August; had been in Saratoga county till three years of age. At six was at Scottsville, where she was purchased a year ago.

Nos. 8 and 9 came from a tuberculous herd in Crosskill, N. J.

The above histories show that those on the place the shortest time were the least affected, and those on the place longest were the most affected. There is a possibility that the disease was on the place where the affected cattle were driven summers. Mr. Coggswell was inclined to believe the disease was brought in by the different cattle. Such was not the case. It has been in his stables long enough for those recently affected to have caught it there.

Herd of Mrs. F. W. Hawley. Pittsford Farm, February 24, 1894.

(1) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	100.8
do	104.4
do	106.0

Lymphatics.—Retro-pharyngeal, each with two cheesy foci. Post. mediastinal, three by four, caseous, small foci. Cardiac, calcareous, and entirely necrotic. Intestinal, calcareous foci. Right lung, caudal lobe, one-fourth inch, cheesy foci, scattered, mainly subpleural. Left lung, caudal lobe, with foci, ventral lobe completely tuberculous, with soft, cheesy foci. Uterus, with dead foetus, eight or nine inches.

Diagnosis.—Tuberculosis.

(2) Variety, Jersey. Age, 5 or 6 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	100.
Injection:	
Morning	102.
do	103.
do	107.

Lymphatics.— Post. mediastinal, several large, cheesy foci, and many one-fourth-inch foci. Ant. mediastinal, normal. Cardiac and other thoracic, with numerous foci. Hepatic and intestinal, caseous. Right lung, caudal lobe, two large foci, each several inches in diameter, agglomerate, soft, cheesy. Left lung, caudal lobe, seven or eight large, caseous foci, and a number of small one-fourth and one-eighth-inch foci, mainly subpleural. Uterus, with foetus, ten weeks.

Diagnosis.— Tuberculosis.

(3) Variety, ———. Age, ———. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	101.8
do	102.6
do	105.4
Afternoon	106.0

Lymphatics.— Post. mediastinal, a dozen or more three-eighths-inch foci. Ant. mediastinal, normal. Cardiac, and other thoracic, with cheesy foci. Right lung, caudal lobe, cheesy foci. Left lung, caudal lobe, two subpleural foci about one-half inch in diameter.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	103.4
do	103.8
do	104.4

Lymphatics.— Intestinal, calcareous.

Diagnosis.— Incipient tuberculosis.

(5) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	103.0
Injection:	———
Morning	104.0
do	103.8
do	104.0

Uterus, with foetus, male, seven and one-half months.
Diagnosis.— According to tuberculin, tuberculosis.

(6) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	———
Morning	102.6
do	103.4
do	103.8

Liver, convex surface, a projecting tubercular mass one-half inch in diameter.
Diagnosis.— According to tuberculin, tuberculosis.

(7) Variety, Jersey. Age, ———. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
Evening	103.2
Injection:	———
Morning	104.0
do	103.8
do	103.4
Afternoon	103.2

Lymphatics.— Retro-pharyngeal, hyperplasia. Hepatic, hyperplasia.

Diagnosis.— According to tuberculin, tuberculosis.

(8) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	102.6
do	102.8
do	104.2

Uterus, foetus, bull, seven or eight months.

Diagnosis.— According to tuberculin, tuberculosis.

(9) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	
Morning	102.4
do	103.0
do	106.2

Lymphatics.— Post. mediastinal, four very large glands connected with a sack containing fluid, tuberculous. Numerous others calcareous. Right lung, caudal lobe, with two large, cheesy foci, two inches in diameter. Uterus, with male foetus, three months.

Diagnosis.— Tuberculosis.

(10) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	102.6
do	102.8
do	103.0
Afternoon	103.8

Lymphatics.— Retro-pharyngeal, hyperplasia. Post. mediastinal and intestinal, calcareous.
Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	101.8
do	102.2
do	106.0
do	106.0

Lymphatics.— Retro-pharyngeal, two by one by one, calcareous and cheesy, with one-fourth-inch foci. Intestinal, calcareous. Post. med., very much enlarged, calcareous. Left lung, caudal lobe, with focus, showing beneath pleura, two by one by one. Other lobe, calcareous. Uterus, with foetus, eight inches long.
Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, ———. Sex, female.
Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	104.0
do	104.8

Lymphatics.— Post. mediastinal, three-fourths inch diameter, and small number of surrounding yellow, necrotic foci, one-eighth to three-sixteenths inch in diameter. Left lung, caudal lobe, with a tubercular focus, touching pleura, three-fourths inch in diameter, soft and caseous, with slight peripheral inflammation.

Diagnosis.— Tuberculosis.

(13) Variety, ———. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	103.6
do	104.6

Lymphatics.— Post. mediastinal, about six one-eighth-inch foci. Ant. mediastinal, with three to six large foci. Intestinal, calcareous. Right lung, cephalic and caudal, tubercles.

Diagnosis.— Tuberculosis.

(14) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.1
Injection:	
Morning	104.6
do	105.6
do	106.2

Lymphatics.— Retro-pharyngeal, one caseous focus. Cardiac, calcareous. Left lung, caudal lobe, a patch of small, yellow, multiple foci, three-fourths inch in diameter; also another minute nodule in same lobe.

Diagnosis.— Tuberculosis.

(15) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	103.8
do	104.2
do	105.0

Lymphatics.— Retro-pharyngeal, hyperplasia. Cardiac, calcareous deposit. Intestinal, hyperaemia and hyperplasia.

Diagnosis.— Tuberculosis.

(16) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	———
Morning	104.4
do	104.8

Lymphatics.— Retro-pharyngeal, hyperplasia. Cardiac, calcareous, one-half-inch diameter.

Diagnosis.— Tuberculosis.

(17) Variety, Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	102 —
Injection:	———
Morning	103 —
do	104 —

Lymphatics.— Post. mediastinal, numerous, large, caseous, gritty masses, surrounded by a dozen smaller ones. Cardiac, normal. Other thoracic, numerous calcareous foci. Lelt lung, caudal lobe, with tubercular foci, about one-half-inch diameter, made up of multiple small ones in same lobe.

Diagnosis.— Tuberculosis.

Herd of Gilbert Westfall. Penfield, February 15, 1894.

(1) Variety, ———. Age, ———. Sex, ———.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
do	102.4
Injection:	———
Morning	103.2
do	104.0
Afternoon	104.0
do	104.0

Lymphatics.— Post. and ant. mediastinal, calcareous and cheesy. Right lung, princ. lobe, calcareous and cheesy. Left lung, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(2) Variety, Grade Holstein. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.2
Injection:	———
Morning	104.2
do	104.2
Afternoon	104.2
do	104.0

Lymphatics.— Post. mediastinal, cardiac and intestinal, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(3) Variety, Native. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
do	102.0
Injection:	———
Morning	104.6
do	104.6
Afternoon	105.4
do	104.6

Lymphatics.— Post. mediastinal and cardiac, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(4) Variety, Grade Holstein. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	100.8
do	101.4
Injection:	———
Morning	102.4
do	104.2
Afternoon	104.4
do	104.2

Lymphatics.— Retro-pharyngeal, hyperplasia. Post. mediastinal, cardiac and intestinal, calcareous and cheesy. Right lung, princ. lobe, calcareous and cheesy. Left lung, calcareous and cheesy.

Diagnosis.— Tuberculosis.

(5) Variety, Grade Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	100.4
do	101.4
Injection:	———
Morning	103.0
do	103.8
Afternoon	104.6
do	104.0

Lymphatics.— Retro-pharyngeal, inguinal, hepatic, hyperplasia. Right lung, princ. lobe, calcareous. Left lung, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(6) Variety, Grade Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
do	102.4
Injection:	———
Morning	104.6
do	104.4
Afternoon	104.2
do	103.6

Lymphatics.— Post. mediastinal, cardiac and intestinal, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(7) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	102.2
Injection:	
Morning	105.0
do	105.0
Afternoon	105.2
do	104.4

Lymphatics.— Retro-pharyngeal and inguinal, hyperplasia. Post. mediastinal, calcareous and cheesy. Cardiac, with orange-size, calcareous deposit.
Diagnosis.— Tuberculosis.

(8) Variety, Grade Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	103 — 0
do	102 — 0
Injection:	
Morning	105 — 4
do	106. 0
Afternoon	106. 2
do	104. 4

Lymphatics.— Post. mediastinal, calcareous and cheesy, four by four by four. Ant. mediastinal, cardiac and intestinal, calcareous and cheesy. Right lung, with orange-size foci. Left lung, four by four by three, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(9) Variety, native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	101.0
Injection:	———
Morning	107.4
do	107.0
Afternoon	106.2
do	105.0

Lymphatics.—Post. mediastinal, seven by five by five, calcareous and cheesy. Ant. mediastinal, calcareous and cheesy. Cardiac, four by three by two, calcareous and cheesy. Hepatic and intestinal, calcareous and cheesy. Right lung, princ. lobe, calcareous and cheesy. Left lung, calcareous and cheesy. Uterus, with male foetus, five months.
Diagnosis.—Tuberculosis.

(10) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	101.4
Injection:	———
Morning	107.0
do	106.6
Afternoon	107.0
do	104.0

Lymphatics.—Post. mediastinal and cardiac, calcareous and cheesy.
Diagnosis.—Tuberculosis.

(11) Variety, Native. Age, ———. Sex female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	100.0
do	102.0
Injection:	
Morning	106.4
do	106.0
Afternoon	105.4
do	106.4

Lymphatics.— Post. mediastinal, cardiac, hepatic and intestinal, calcareous and cheesy. Right lung, small area, calcareous. Left lung, princ. lobe, calcareous. Mammae, abscess cavity.
Diagnosis.— Tuberculosis.

(12) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.2
do	102.0
Injection:	
Morning	106.4
do	106.4
Afternoon	106.2
do	104.0

Lymphatics.— Post. mediastinal, cardiac, hepatic and intestinal, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(13) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
do	102.0
Injection:	———
Morning	107.2
do	106.2
Afternoon	106.2
do	107.2

Lymphatics.—Retro-pharyngeal, prescapular and inguinal, hyperplasia. Post. mediastinal, cardiac, hepatic and intestinal, calcareous and cheesy. Mesenteries, with neoplastic growths. Right lung, consolidated, calcareous and cheesy, with abscess cavity. Left lung, calcareous and cheesy. Abscess cavity opening into trachea. Uterus, with male foetus, three months.
Diagnosis.—Tuberculosis.

(14) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
do	101.0
Injection:	———
Morning	104.0
do	105.0
Afternoon	105.6
do	106.2

Lymphatics.—Post. mediastinal, cardiac and intestinal, calcareous and cheesy. Hepatic, calcareous. Right and left lungs, scattered foci, calcareous.
Diagnosis.—Tuberculosis.

(15) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
do	102.4
Injection:	———
Morning	105.8
do	105.8
Afternoon	106.2
do	106.6

Lymphatics.— Post. mediastinal, cardiac and intestinal, calcareous and cheesy. Left lung, prin. lobe, calcareous.
Diagnosis.— Tuberculosis.

(16) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.0
Injection:	———
Morning	105.2
do	105.0
Afternoon	105.4
do	104.4

Lymphatics.— Post. mediastinal and cardiac, calcareous and cheesy.
Diagnosis.— Tuberculosis.

(17) Variety, Native. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.2
do	102.4
Injection:	———

Time.	Temperature.
Morning	106.0
do	106.4
Afternoon	106.6
do	105.4

Lymphatics.— Post. mediastinal, eight by five by six, calcareous and cheesy. Ant. mediastinal, four by two by two, calcareous and cheesy. Cardiac, five by four by three, calcareous and cheesy. Other thoracic, very large and calcareous. Hepatic and intestinal, calcareous. Right lung, princ. lobe, consolidated, with scattered foci. Left lung, post. lobe, consolidated, with scattered foci. Uterus, with male foetus, seven months.

Diagnosis.— Tuberculosis.

(18) Variety, Native. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
do	102.0
Injection:	
Morning	105.0
do	105.4
Afternoon	105.2
do	104.0

Lymphatics.— Post. and ant. mediastinal, calcareous and cheesy. Cardiac, orange size, cheesy. Hepatic, calcareous.

Diagnosis.— Tuberculosis.

(19) Variety, Native. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
do	101.0
Injection:	

Time.	Temperature.
Morning	106.0
do	105.2
Afternoon	105.0
do	105.4

Lymphatics.—Retro-pharyngeal and inguinal, hyperplasia. Post. mediastinal, cardiac, hepatic and intestinal, calcareous and cheesy. Right lung, princ. lobe, calcareous and cheesy. Left lung, calcareous and cheesy.

Diagnosis.—Tuberculosis.

(20) Variety Native, Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	100.2
do	102.0
Injection:	
Morning	105.4
do	105.4
Afternoon	105.8
do	105.0

Lymphatics.—Retro-pharyngeal and inguinal, hyperplasia. Post. mediastinal, hepatic and intestinal, calcareous. Cardiac, cheesy. Right lung, calcareous and cheesy, with abscess opening into trachea. Left lung, scattered foci.

Diagnosis.—Tuberculosis.

(21) Variety, Grade, Holstein. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.4
do	102.0
Injection:	
Morning	104.0
do	106.0
Afternoon	106.0
do	105.4

Lymphatics.— Post. mediastinal, calcareous. Cardiac, hepatic and intestinal, calcareous and cheesy. Left lung, princ. lobe, calcareous, size of musk-melon.

Diagnosis.— Tuberculosis.

(22) Variety, Grade, Holstein. Age, ——— Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.4
do	102.4
Injection:	
Morning	107.0
do	106.6
Afternoon	105.8
do	104.4

Lymphatics.— Retro-pharyngeal and inguinal, hyperplastic. Post. mediastinal, seven by six by six, calcareous and cheesy. Ant. mediastinal, calcareous and cheesy. Cardiac, four by four, calcareous. Hepatic and intestinal, calcareous and cheesy. Right lung, post. lobe, consolidated and cheesy. Left lung, scattered foci, pea and nut-size.

Diagnosis.— Tuberculosis.

(23) Variety, Grade, Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	102.0
Injection:	
Morning	107.0
do	104.6
Afternoon	104.4
do	104.6

Lymphatics.—Post. mediastinal, very large, calcareous and cheesy. Cardiac, hepatic, intestinal, calcareous and cheesy.
Diagnosis.—Tuberculosis.

(24) Variety, Grade, Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101 .8
do	101 .0
Injection:	
Morning	103 .2
do	105 .6
Afternoon	105 .6
do	105 .4

Lymphatics.—Retro-pharyngeal, enlarged. Inguinal, hyperplasia, and enlarged. Post. mediastinal, four by four by four, calcareous and cheesy. Cardiac, three by three by two, calcareous and cheesy. Other thoracic, with small and scattered, cheesy foci. Intestinal, calcareous and cheesy.
Diagnosis.—Tuberculosis.

(25) Variety, Grade, Holstein. Age, ———. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
do	102.4
Injection:	———
Morning	106.4
do	106.6
Afternoon	107.0
do	106.2

Lymphatics.—Retro-pharyngeal, hyperplasia. Inguinal, enlarged and hyperplasia. Post. mediastinal, three by four by two, calcareous and cheesy. Ant. mediastinal, and cardiac, orange-size and calcareous and cheesy. Other thoracic, numerous, two by two, calcareous and cheesy. Serous membranes. Mesenteries, with neoplastic growths. Right lung, princ. lobe, four by two by three, calcareous and cheesy. Left lung, scattered foci, calcareous. Liver, calcareous foci. Spleen, neoplastic growths.

Diagnosis.—Tuberculosis.

Remarks of inspector.—Mr. Westfall gives a poor history of his herd, not being able to remember. He claims to have lost three or four animals some time ago, and to have sold all his very poor ones; also that the principal part of his herd came from F. D. Ely's place. The barn was very poor, damp, ill-ventilated. The cattle were in a poor condition, most of them being covered with vermin. The animals which did not respond to the tuberculin test, according to the statement of the hired man, had not been on the place long, four having been bought within two months.

Herd of H. Houndorf. Greece, March 9, 1894.
Variety, Native. Age, ———. Sex, male.
Condition, good.

(23) Variety, Grade, Holstein. Age, ———. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	102.0
Injection:	———
Morning	107.0
do	104.6
Afternoon	104.4
do	104.6

Lymphatics.—Post. mediastinal, very large, calcareous and cheesy. Cardiac, hepatic, intestinal, calcareous and cheesy.

Diagnosis.—Tuberculosis.

(24) Variety, Grade, Holstein. Age, ———. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
do	101.0
Injection:	———
Morning	103.2
do	105.6
Afternoon	105.6
do	105.4

Lymphatics.—Retro-pharyngeal, enlarged. Inguinal, hyperplasia, and enlarged. Post. mediastinal, four by four by four, calcareous and cheesy. Cardiac, three by three by two, calcareous and cheesy. Other thoracic, with small and scattered, cheesy foci. Intestinal, calcareous and cheesy.

Diagnosis.—Tuberculosis.

ORANGE COUNTY.

Herd of Sears & Howell. Blooming Grove, January 30, 1894.

(1) Variety, Ayrshire. Age, 9 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.2
5 a. m.	106.7
11 a. m.	105.7
1 p. m.	105.0
3 p. m.	105.5

Serous membranes.— Diaphragmatic, thoracic side, tuberculous. Mesenteries, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(2) Variety, ———. Age, 8 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.0
5 a. m.	102.5
7 a. m.	105.0
11 a. m.	105.2
1 p. m.	104.0
3 p. m.	103.2

Serous membranes.— Pericardium, tuberculous. Diaphragmatic, thoracic side, tuberculous. Left lung, tuberculous; spleen, spotted.

Diagnosis.— Tuberculosis.

(3) Variety, Grade Ayrshire. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	101.5
7 a. m.	104.0
11 a. m.	105.0
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Cardiac, tuberculous. Serous membranes.—Diaphragmatic, thoracic side, and mesenteries, tuberculous. Spleen, spotted.
Diagnosis.— Tuberculosis.

(4) Variety, ———. Age, 5 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature
5 p. m.	103.00
10 p. m., Injection	103.45
5 a. m.	104.00
7 a. m.	106.50
11 a. m.	105.70
1 p. m.	104.00
3 p. m.	103.30

Lymphatics.— Ant. mediastinal, tuberculous. Right lung and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(5) Variety, ———. Age, 10 years. Sex, female.
Condition, good.

ORANGE COUNTY.

Herd of Sears & Howell. Blooming Grove, January 30, 1894.

(1) Variety, Ayrshire. Age, 9 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.2
5 a. m.	106.7
11 a. m.	105.7
1 p. m.	105.0
3 p. m.	105.5

Serous membranes.— Diaphragmatic, thoracic side, tuberculous. Mesenteries, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(2) Variety, ———. Age, 8 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.0
5 a. m.	102.5
7 a. m.	105.0
11 a. m.	105.2
1 p. m.	104.0
3 p. m.	103.2

Serous membranes.— Pericardium, tuberculous. Diaphragmatic, thoracic side, tuberculous. Left lung, tuberculous; spleen, spotted.

Diagnosis.— Tuberculosis.

(3) Variety, Grade Ayrshire. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	101.5
7 a. m.	104.0
11 a. m.	105.0
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.—Cardiac, tuberculous. Serous membranes.—Diaphragmatic, thoracic side, and mesenteries, tuberculous. Spleen, spotted.
Diagnosis.— Tuberculosis.

(4) Variety, ———. Age, 5 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	103.00
10 p. m., Injection	103.45
5 a. m.	104.00
7 a. m.	106.50
11 a. m.	105.70
1 p. m.	104.00
3 p. m.	103.30

Lymphatics.— Ant. mediastinal, tuberculous. Right lung and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(5) Variety, ———. Age, 10 years. Sex, female.
Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.7
10 p. m., Injection	101.5
5 a. m.	101.7
7 a. m.	102.7
11 a. m.	104.0
1 p. m.	103.7
3 p. m.	102.0

Lymphatics.—Post. mediastinal, tuberculous. Serous membranes.—Diaphragmatic, thoracic side, mesenteries and omentum, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(6) Variety, ———. Age, 3 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	103.0
7 a. m.	104.7
11 a. m.	105.0
1 p. m.	105.3
3 p. m.	104.0

Lymphatics.—Post. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Right lung, tuberculous.

Diagnosis.—Tuberculosis.

(7) Variety, ———. Age, 6 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.0
5 a. m.	101.0
7 a. m.	102.0
11 a. m.	102.0
1 a. m.	103.5
3 a. m.	103.5

Serous membranes.— Diaphragmatic, thoracic side, and mesenteries, tuberculous. Right lung and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(8) Variety, Native. Age, 10 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.7
5 a. m.	106.0
7 a. m.	102.3
11 a. m.	101.3
1 p. m.	101.5
3 p. m.	101.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. R. costal, diaphragmatic, thoracic side and omentum, tuberculous. Right and left lungs, liver, spleen and kidneys, tuberculous.

Diagnosis.— Tuberculosis.

(9) Variety, Native. Age, 8 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	100.0
10 p. m., Injection	100.0
5 a. m.	102.0

(14) Variety, Ayrshire. Age, 10 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	103.3
5 a. m.	102.5
7 a. m.	103.5
11 a. m.	105.0
1 p. m.	105.5
3 p. m.	105.0

Lymphatics.—Post. and ant. mediastinal, and other thoracic, tuberculous. Serous membranes. R. and L. pulmonaries, tuberculous. Right and left lungs and liver, tuberculous.
Diagnosis.—Tuberculosis.

(15) Variety, Ayrshire and Jersey. Age, 19 months. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	102.0
5 a. m.	104.0
7 a. m.	102.0
11 a. m.	102.0
1 p. m.	102.5
3 p. m.	102.0

Lymphatics.—Retro-pharyngeal and post. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Left lung, liver and spleen, tuberculous.
Diagnosis.—Tuberculosis.

5 p. m.	102.2
10 p. m., Injection	103.7
5 a. m.	106.0
7 a. m.	106.5
11 a. m.	105.0
3 p. m.	105.0

Serous membranes.—R. costal, L. costal, diaphragmatic, thoracic side, and omentum, tuberculous. Right and left lungs, the liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(17) Variety, Native. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	102.0
7 a. m.	102.0
11 a. m.	103.5
1 p. m.	105.0
3 p. m.	106.0

Lymphatics.— Nothing. Serous membranes. Mesenteries, left lung and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(18) Variety, Ayrshire. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature
5 p. m.	101.0
10 p. m., Injection	100.
5 a. m.	101.

Time.	Temperature.
7 a. m.	103.7
11 a. m.	104.5
1 p. m.	104.7
3 p. m.	103.7

Serous membranes.— Diaphragmatic, thoracic side, and abdominal side, mesenteries and omentum, tuberculous. Right lung, left lung, liver and spleen and uterus, tuberculous.

Diagnosis.— Tuberculosis.

(19) Variety, Ayrshire. Age, 19 months. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	103.2
5 a. m.	101.0
7 a. m.	104.7
11 a. m.	105.2
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membrane. Pericardium and omentum, tuberculous. Right lung, tuberculous.

Diagnosis.— Tuberculosis.

(20) Variety, ———. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.0
5 a. m.	101.5
7 a. m.	102.3
11 a. m.	102.7
1 p. m.	103.0
3 p. m.	103.0

(16) Variety, ———. Age, 2 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.2
10 p. m., Injection	103.7
5 a. m.	106.0
7 a. m.	106.5
11 a. m.	105.0
3 p. m.	105.0

Serous membranes.—R. costal, L. costal, diaphragmatic, thoracic side, and omentum, tuberculous. Right and left lungs, the liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(17) Variety, Native. Age, 6 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	102.0
7 a. m.	102.0
11 a. m.	103.5
1 p. m.	105.0
3 p. m.	106.0

Lymphatics.— Nothing. Serous membranes. Mesenteries, left lung and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(18) Variety, Ayrshire. Age, 4 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	100.2
5 a. m.	101.7

Time.	Temperature.
7 a. m.	103.7
11 a. m.	104.5
1 p. m.	104.7
3 p. m.	103.7

Serous membranes.— Diaphragmatic, thoracic side, and abdominal side, mesenteries and omentum, tuberculous. Right lung, left lung, liver and spleen and uterus, tuberculous.

Diagnosis.— Tuberculosis.

(19) Variety, Ayrshire. Age, 19 months. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	103.2
5 a. m.	101.0
7 a. m.	104.7
11 a. m.	105.2
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membrane. Pericardium and omentum, tuberculous. Right lung, tuberculous.

Diagnosis.— Tuberculosis.

(20) Variety, ———. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.0
5 a. m.	101.5
7 a. m.	102.3
11 a. m.	102.7
1 p. m.	103.0
3 p. m.	103.0

Lymphatics.—Retro-pharyngeal, very large and caseous. Other thoracic, right and left, tuberculous. Serous membranes, Diaphragmatic, thoracic side, tuberculous. Left lung, tuberculous.

Diagnosis.—Tuberculosis.

(21) Variety, Ayrshire. Age, 7 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.0
5 a. m.	101.0
7 a. m.	101.0
11 a. m.	102.0
1 p. m.	103.0
3 p. m.	103.0

Serous membranes.—Diaphragmatic, thoracic side, tuberculous. Right lung, spleen and uterus, tuberculous.

Diagnosis.—Tuberculosis.

(22) Variety, Ayrshire. Age, 10 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	101.0
7 a. m.	102.0
11 a. m.	104.7
1 p. m.	104.0
3 p. m.	102.5

Lymphatics.—Post. and ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic and abdominal sides, abdominal walls, and omentum, tuberculous. Right lung, left lung and liver, tuberculous.

Diagnosis.—Tuberculosis.

(23) Variety, Native. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.2
5 a. m.	102.5
7 a. m.	102.0
11 a. m.	102.5
1 p. m.	105.0
3 p. m.	101.7

Serous membranes.— Pericardium, diaphragmatic, thoracic side. Mesenteries and omentum, tuberculous. Liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(24) Variety, Jersey. Age, 4 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.2
5 a. m.	104.2
7 a. m.	105.2
11 a. m.	105.5
1 p. m.	104.0
3 p. m.	102.7

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. R. costal, L. costal, diaphragmatic, thoracic, abdominal sides, and mesenteries, tuberculous. Right lung, left lung, liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(25) Variety, Ayrshire. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	102.0
5 a. m.	104.7
7 a. m.	106.0
11 a. m.	106.0
1 p. m.	105.7
3 p. m.	104.0

Liver and spleen, tuberculous.
Diagnosis.—Tuberculosis.

(26) Variety, Ayrshire, High Grade. Age, 9 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.7
10 p. m., Injection	101.7
5 a. m.	101.2
7 a. m.	106.0
11 a. m.	105.0
1 p. m.	105.5
3 p. m.	105.0

Right lung, left lung, liver and spleen, tuberculous.
Diagnosis.—Tuberculosis.

(27) Variety, Ayrshire. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.7
5 a. m.	102.7

Time.	Temperature.
7 a. m.	103.2
11 a. m.	105.0
1 p. m.	102.5
3 p. m.	102.2

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. R. and L. costals, diaphragmatic, thoracic and abdominal sides, abdominal walls, mesenteries and omentum, tuberculous. Right and left lungs, liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(28) Variety, Ayrshire. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.2
5 a. m.	103.5
7 a. m.	105.5
11 a. m.	104.7
1 p. m.	104.7
3 p. m.	104.7

Lymphatics.—Ant. mediastinal, tuberculous. Serous membranes. L. pulmonary, diaphragmatic, thoracic side, tuberculous. Spleen, tuberculous.

Diagnosis.— Tuberculosis.

(29) Variety, Jersey. Age, 6 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.7
10 p. m., Injection	101.2
5 a. m.	101.0
7 a. m.	105.7
11 a. m.	106.0
1 p. m.	105.7
3 p. m.	104.5

Lymphatics.— Cardiac, tuberculous. Serous membranes. Pericardium, diaphragmatic, thoracic side, and mesenteries, tuberculous. Spleen, kidneys and mammae, tuberculous.

Diagnosis.— Tuberculosis.

(30) Variety, ———. Age, 2 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	103.0
5 a. m.	100.5
7 a. m.	102.2
11 a. m.	104.2
1 p. m.	105.2
3 p. m.	104.2

Serous membranes.— Diaphragmatic, thoracic side, omentum, tuberculous. Right lung, spleen and uterus, tuberculous.

Diagnosis.— Tuberculosis.

(31) Variety, ———. Age, 3 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	104 .5
10 p. m., Injection	106 .5
5 a. m.	103 .3
7 a. m.	103 .5
11 a. m.	103 .3
1 p. m.	103 .0
3 p. m.	103 .0

Congestion of right and left lungs.

Diagnosis.— Congestion of lungs.

(Animal killed on account of physical examination.)

(32) Variety, Ayrshire grade. Age, 1 year. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	102.0
5 a. m.	103.7
7 a. m.	102.7
11 a. m.	102.2
1 p. m.	101.5
3 p. m.	101.0

Lymphatics.— Retro-pharyngeal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, mesenteries, tuberculous. Liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(33) Variety, Ayrshire. Age, 15 months. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	103.2
10 p. m., Injection	104.0
5 a. m.	102.5
7 a. m.	103.0
11 a. m.	101.0
1 p. m.	101.7
3 p. m.	101.5

Right lung, globular pneumonia.
Diagnosis.— Globular pneumonia.
(Killed on account of physical examination.)

(34) Variety, Ayrshire. Age, 5 months. Sex, female.
Condition, fair.

5 p. m.	105.5
10 p. m., Injection	105.2
5 a. m.	104.0
7 a. m.	104.0
11 a. m.	104.0
1 p. m.	103.2
3 p. m.	102.7

Right lung, pneumonia.

Diagnosis.—Pneumonia.

(Killed on physical examination.)

(35) Variety, Ayrshire grade. Age, 15 months. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	104.0
5 a. m.	101.2
7 a. m.	101.0
11 a. m.	101.0
1 p. m.	101 — 0
3 p. m.	101 — 7

Pleuritis of diaphragmatic, thoracic side.

Diagnosis.—Old case of pleuritis.

(Killed on physical examination.)

(36) Variety, Ayrshire. Age, 13 months. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102. 0
10 p. m., Injection	104. 0
5 a. m.	102.5

Time.	Temperature.
7 a. m.	101.7
11 a. m.	100.0
1 p. m.	101.0
3 p. m.	100.5

Right lung and left lung, affected with lobular pneumonia.
Diagnosis.— Lobular pneumonia.
(Killed on physical examination.)

(37) Variety, Grade. Age, 6 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.50
10 p. m., Injection	101.20
5 a. m.	102.50
7 a. m.	103.70
11 a. m.	103.70
1 p. m.	104.75
3 p. m.	102.70

Serous membranes.— Diaphragmatic, thoracic side, and abdominal walls, tuberculous. Left lung, liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(38) Variety, ———. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	99.7
5 a. m.	105.0
7 a. m.	105.0
11 a. m.	104.2
1 p. m.	104.0
3 p. m.	103.0

Lymphatics.— Post. mediastinal, tuberculous. Serous membranes. Abdominal walls, tuberculous. Small tubercles in right and left lungs. Diffused tubercles in liver and spleen.

Diagnosis.— Tuberculosis.

(39) Variety, Jersey. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.7
5 a. m.	102.0
7 a. m.	103.0
11 a. m.	105.5
1 p. m.	104.5

Lymphatics and ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, and abdominal walls, tuberculous. Right and left lungs, tuberculous.

Diagnosis.— Tuberculosis.

(40) Variety, ———. Age, 4 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.0
5 a. m.	101.5
7 a. m.	104.2
11 a. m.	105.0
1 p. m.	104.5
3 p. m.	104.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Right and left lungs and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(41) Variety, Native. Age, 6 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.5
5 a. m.	103.5
7 a. m.	107.0
11 a. m.	105.5
1 p. m.	105.5
3 p. m.	105.0

Lymphatics.— Post. mediastinal, tuberculous. Serous membranes. Mesenteries, tuberculous. Right lung, liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(42) Variety, Ayrshire. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.0
5 a. m.	103.5
7 a. m.	105.2
11 a. m.	105.0
1 p. m.	104.0
3 p. m.	103.5

Lymphatics.— Post. mediastinal, with large tubercles. Serous membranes. Diaphragmatic, thoracic side, abdominal walls, mesenteries and omentum, tuberculous. Right lung, left lung, liver and spleen, tuberculous.
Diagnosis.— Tuberculosis.

(43) Variety, ———. Age, 4 years. Sex, female.
Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.0
5 a. m.	101.3
7 a. m.	105.2
11 a. m.	105.0
1 p. m.	104.2
3 p. m.	103.5

Lymphatics.—Ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, abdominal walls and mesenteries, tuberculous. Right lung, left lung, liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(44) Variety, Ayrshire. Age, 12 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.2
5 a. m.	105.5
7 a. m.	106.2
11 a. m.	105.5
1 p. m.	104.7
3 p. m.	104.0

Lymphatics.— Cardiac, tuberculous. Serous membranes. Diaphragmatic, thoracic side, mesenteries, tuberculous. Liver and uterus, tuberculous.

Diagnosis.— Tuberculosis.

(45) Variety, ———. Age, 5 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	103.0
10 p. m., Injection	103.0
5 a. m.	107.0
7 a. m.	106.2
11 a. m.	105.2
1 p. m.	103.5
3 p. m.	103.0

Lymphatics.— Post. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, badly tuberculous. Right lung, left lung, liver and spleen, badly tuberculous.

Diagnosis.— Tuberculosis.

(46) Variety, ———. Age, 3 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.5
5 a. m.	104.0
7 a. m.	105.0
11 a. m.	103.0
1 p. m.	105.0
3 p. m.	105.0

Lymphatics.— Post. and ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Right lung, left lung and liver, badly tuberculous.

Diagnosis.— Tuberculosis.

(47) Variety, Jersey, high grade. Age, 5 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	102.7
5 a. m.	101.7

Time.	Temperature.
7 a. m.	104.0
11 a. m.	105.7
1 p. m.	105.0
3 p. m.	104.5

Lymphatics.— Prescapular, and post. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, abdominal walls, mesenteries, tuberculous. Left lung and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(48) Variety, ———. Age, 6 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.7
10 p. m., Injection	101.5
5 a. m.	107.2
7 a. m.	106.2
11 a. m.	105.2
1 p. m.	104.7
3 p. m.	103.7

Serous membranes. R. costal, diaphragmatic, thoracic side, tuberculous. Right and left lungs, liver and spleen, tuberculous.

Diagnosis.— Tuberculosis.

(49) Variety, Ayrshire. Age, 5 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.5
10 p. m., Injection	101.2
5 a. m.	106.5
7 a. m.	106.7
11 a. m.	105.5
1 p. m.	104.7
3 p. m.	103.5

Lymphatics.— Ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, abdominal walls, mesenteries, tuberculous.

Diagnosis.— Tuberculosis.

(50) Variety, ———. Age, 10 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	100.7
5 a. m.	101.2
7 a. m.	102.0
11 a. m.	101.5
1 p. m.	101.5
3 p. m.	101.5

Note.— No reaction, under test. Killed for experiment, and no trace of tuberculosis found. All organs perfectly healthy. She was raised on the place, and was always in the dairy.

(51) Variety, Ayrshire. Age, 5 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.2
10 p. m., Injection	101.0
5 a. m.	103.0
7 a. m.	107.0
11 a. m.	106.0
1 p. m.	106.0
3 p. m.	105.0

Lymphatics.— Ant. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, abdominal walls, mesenteries, and omentum, tuberculous. Spleen, spotted.

Diagnosis.— Tuberculosis.

(52) Variety, Native. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	102.0
10 p. m., Injection	101.5
5 a. m.	106.5
7 a. m.	106.5
11 a. m.	105.7
1 p. m.	107.0
3 p. m.	106.0

Lymphatics.— Post. mediastinal, tuberculous. Serous membranes. Diaphragmatic, thoracic side, tuberculous. Right lung and liver, tuberculous. Small tubercle on left lung. Spleen, spotted.
Diagnosis.— Tuberculosis.

(53 to 58) Variety, Grades. Ages, 6 to 8 weeks. Sex, both.
Condition, good.
Tuberculin experiments, none given.
Post-mortem showed no lesions. All came from tuberculous cows.

(59) Variety, Ayrshire. Age, 4 months. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	105.0
10 p. m., Injection	103.0
5 p. m.	101.5
7 a. m.	102.
11 a. m.	102.
1 p. m.	101.5
3 p. m.	102.

Diagnosis.— Pleuritis.

(60) Variety, Ayrshire. Age, 4 months. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.5
10 p. m., Injection	101.0
5 a. m.	102.5
7 a. m.	104.0
11 a. m.	104.6
1 p. m.	103.0
3 p. m.	102.0

Right lung had small tubercles, and liver was tuberculous.
Diagnosis.— Tuberculosis.

(61) Variety, ———. Age, 4 months. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	103.5
10 p. m., Injection	102.0
5 a. m.	102.0
7 a. m.	103.2
11 a. m.	102.0
1 p. m.	101.5
3 p. m.	101.0

Diagnosis.— Pneumonia.

(62) Variety, ———. Age, 4 months. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
5 p. m.	101.0
10 p. m., Injection	101.7
5 a. m.	103.0
7 a. m.	103.6
11 a. m.	104.2
1 p. m.	103.0
3 p. m.	102.0

Lymphatics.— Small tubercles on post. mediastinal. Liver, tuberculous.

Diagnosis.— Tuberculosis.

Herd of Bernard Finkle. Blooming Grove, January 30, 1893.

Variety, ———. Age, ———. Sex, female.

Condition, ———.

Tuberculin test, not given.

Post-mortem showed extensive lesions, adhesions both lungs to pleura and diaphragm. Liver, spleen and kidneys, seat of well-marked tubercle deposit. Cardiac, mediastinal and mesentery gangliae, grossly involved. Section of liver and kidney, right, taken to Brooklyn for microscopical examination. Not reported on to me. An undoubted case, whether confirmed by microscope or not.

Herd of Hopkin Smith. Monroe, January 26, 1893.

Variety, not given. Age, ———. Sex, female.

Condition, ———.

Tuberculin test, not given.

Post-mortem showed tuberculosis of both lungs. Mediastinal, gangliae and liver, slightly affected. Kidney, probably affected, Extensive peritonitis, with plastic exudate, in abdominal cavity. Kidney sent to Brooklyn for microscopic examination, and diagnosis verified.

Herd of Peter G. Lewis. Monroe, January 26, 1893.

Variety, Brindle Grade. Age, ———. Sex, female.

Condition, ———.

Tuberculin test, not given.

Post-mortem showed general tuberculosis.

Herd of Seely Stevens. Chester, February 9, 1893.

(1) Variety, Part Alderney. Age, ———. Sex, female.

Condition, ———.

Tuberculin test, not given.

Post-mortem showed general tuberculosis. Lungs, diaphragm, spleen and liver, involved.

(2) Variety, Jersey. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed tuberculosis of lungs, larynx and parotid gland.

(3) Variety, ———. Age, ———. Sex, female.
Condition, ———, February 18, 1893.
Tuberculin test, not given.
Post-mortem showed both lungs affected with miliary tuberculosis; also, cardiac, ganglia and liver.

Herd of J. Ruben Hunter. Monroe, February 16, 1893.
Variety, Ayrshire-Holstein. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed extensive tuberculosis of both lungs, with adhesions to the ribs and diaphragm; an abscess in front of the reticulum, due to the presence of a nail swallowed at some time, and working its way forward through the tissues. There were also a few nodules in the liver, and tuberculosis of the glands in front of the liver and the mediastinal glands.

Herd of John D. Smith. Monroe, February 18, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed suspicious, but not positive, symptoms of tuberculosis in both lungs. Sections taken to Brooklyn for microscopical examination. Report showed that no tubercle bacilli were found, but that it was a case of pneumonia.

Herd of S. Bull. Monroe, March 4, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed tuberculosis of both lungs.

Herd of Peter Fitzgerald. Chester, March 4, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed both lungs, cardiac and mediast glands involved.

Herd of Peter Fitzgerald. Monroe, March 25, 1893.
Variety, Jersey. Age, 3 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed hereditary tuberculosis. Right lung all glands involved.

Herd of N. W. Howell. Blooming Grove, March 24, 18
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, both lungs.

Herd of John Y. Gerow. Washingtonville, March 24, 18
Variety, Ayrshire. Age, 10 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, both lungs.

Herd of J. W. Hoyt. Chester, March 24, 1893.
Variety, Holstein. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Herd of D. Booth. Blooming Grove, March 31, 1893.
Variety, ———. Age, 11 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, both lungs.

Herd of J. B. Hudson. Blooming Grove, March 31, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, both lungs.

Herd of C. B. Rowe. Blooming Grove, March 31, 1893.
Variety, ———. Age, 11 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, left lung.

Herd of A. B. Rowe. Chester, April 6, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Herd of George B. Parsons. Blooming Grove, March 11, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem, general tuberculosis, both lungs.

Herd of John Breithaupt. Blooming Grove, April 13, 1893.
Variety, ———. Age, 10 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Both lungs and mediastinal glands, badly diseased.

Herd of Wm. Earl. Blooming Grove, April 13, 1893.
Variety, ———. Age, 12 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular and pulmonary tuberculosis. Both lungs, liver, and lymphatic glands affected.

Sears and Howell. Blooming Grove, April 13, 1893.
Variety, Jersey. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Scrofulous abscesses pressing on larynx. Glands throughout the body, tuberculous. Had been making louder noises, while breathing, than was natural for six months previous to killing.

Herd of Gilbert Smith. Blooming Grove, April 21, 1893.
(1) Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis, specially bad.

(2) Variety, ———. Age, 12 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Herd of J. N. Bull. Monroe, April 28, 1893.
Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Right and left lungs affected.

Herd of John Mangin. Blooming Grove, April 28, 1893.
(1) Variety, ———. Age, 4 years. Sex, female.
Condition, good.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Lymphatic glands specially affected.

(2) Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.
Owner surprised at result of post-mortem.

(3) Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed miliary tuberculosis. Abdominal cavity, specially affected.

Note.— These cattle were kept in a stable of fair sanitary condition. Nos. 1 and 2 had a history showing the hereditary transmission of tuberculosis, being the progeny of a bull that was pronounced tuberculous by Dr. McLean, in 1888 or 1889, a pure bred Holstein. They were not thought to be diseased by the owner. He was present at the autopsy, and was much surprised at the result.

Herd of C. R. Bull. Blooming Grove, April 30, 1893.
Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs badly involved.

Herd of G. B. Stoutenburgh. Chester, May 5, 1893.
Variety, ———. Age, 9 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Pressure on larynx by enlarged tuberculous glands. Mediastinal affected.

Herd of J. Y. Davis. May 5, 1893.
Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Throat tuberculous. Mediastinal glands involved.

Herd of John Mangin. Blooming Grove, May 5, 1893.
(1) Variety, ———. Age, ———. Sex, female.
Condition, good.
Tuberculin test, not given.

Post-mortem showed general tuberculosis. All glands, lungs and peritoneum, affected. Animal showed good appearance during life.

(2) Variety, Holstein. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Right lung affected.

Herd of Mrs. Lawson Valentine. Mountainville, June 15, 1893.
(1) Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Glands of throat and mediastinal glands, affected.

(2) Variety, Jersey. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis, as far as could be seen with naked eye. Lower jaw very much enlarged. A case of actinomycosis.

Herd of James Seaman. Woodbury, June 15, 1893.
(1) Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(2) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Herd of John W. Ford. Woodbury, June 15, 1893.
Variety, Jersey. Age, 8 years. Sex, female.
Condition, ———.

Tuberculin test, not given.

Post-mortem showed glandular tuberculosis. Glands of throat and mediastinal glands, affected. Owner supposed cow had silver tube to breathe through, and was much surprised when it could not be found. Animal was a roarer during life.

Herd of Wm. Thompson. Hamptonburg, July 14, 1893.
Variety, Grade Ayrshire. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Right lung badly affected.

Estate of J. G. Wood. Chester, July 28, 1893.
Variety, ———. Age, 10 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Shows glandular and pulmonary tuberculosis. General tuberculosis.

Herd of Wm. Southerland. Monroe, August 8, 1893.
(1)Variety, ———. Age, 4 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(2) Variety, ———. Age, 4 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Glands of the throat affected. Roared, while breathing.

Herd of King David Bull. Chester, August 10, 1893.
Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Mediastinal glands, specially affected.

Note.—This herd should be tested with tuberculin. There is no doubt there are several more cases here, but physical signs are not definite enough to condemn them.

Herd of John W. Smith. Monroe, August 18, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Small abscess in left lung.

Herd of A. C. Southerland. Woodbury, August 17, 1893.
(1) Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs affected.

(2) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Right lung and mediastinal glands, specially affected.

Herd of J. H. Thompson. Turners, August 18, 1893.
Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Glands of throat and mediastinal specially affected.

Herd of G. M. Clark. Turners, August 17, 1893.
Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Right and left lungs and glands generally affected.

Herd of Laurence Keegan. Monroe, August 12, 1893.
Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
No post-mortem as owner buried animal before notifying inspector. Reported, August tenth, as tuberculous.

Herd of Daniel H. Southerland. Woodbury, August 18, 1893.
Variety, ———. Age, 11 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary phthisis. Right lung, mostly affected.

Herd of David Thorn. Central Valley, August 17, 1893.
Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary phthisis. Both lungs badly affected.

Herd of Dr. E. S. Elsner. Central Valley, August 18, 1893.
Variety, Jersey. Age, 9 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Both lungs and mediastinal glands affected.

Herd of Lawrence Keegan. Monroe, August 24, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs and glands affected. Owner did not think there was anything the matter with cow and did not want to let her go. But was well satisfied with autopsy.

Herd of S. Mead. Woodbury, August 24, 1893.

(1) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs and gland affected.

(2) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Throat glands specially enlarged. (A roarer.)

(3) Variety, ———. Age, 10 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(4) Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Large scrofulous abscess at angle of left inferior maxillary bone.

(5) Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(6) Variety, ———. Age, 3 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Note.— The inspector remarks: "My relations with the farmers are becoming somewhat strained, and how long it will be before they mob me, is more than I can tell. If, at least, a few of them could be paid for the cattle condemned and killed, it would greatly facilitate my work and make it much pleasanter."

(7) Variety, ———. Age, 15 years. Sex, female.
Condition, ———, September 5, 1893.
Post-mortem showed general tuberculosis. Left lung specially affected.

(8) Variety, ———. Age, 3 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Glands of throat specially affected.

Herd of S. C. Earl. Monroe, September 8, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs and glands generally affected. Omentum covered with tubercles.

Herd of Peter Turner. Monroe, September 5, 1893.
Variety, Holstein. Age, 3 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Pharyngeal glands specially affected.

Herd of J. B. Otis. Goshen, September 5, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary phthisis of both lungs. Left lung specially affected.

Herd of Josiah Otis. Goshen, September 5, 1893.
Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Post-mortem general tuberculosis. T. glands affected.

(2) Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary tuberculosis. Both lungs affected.

Herd of E. H. Harriman. Tuexedo, September 8, 1893.
Variety, ———. Age, 2 years. Sex, male.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis, but actinomycosis, or big jaw.

Herd of Peter Turner. Monroe, September 5, 1893.
Variety, Jersey. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

S. S. Hulbert. Chester, September 13, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pleuritic adhesions of both lungs, but no tuberculosis.

Herd of T. B. Tuthill. Blooming Grove, September 19, 1893.
Variety, ———. Age, 9 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

Herd of C. R. Cline. Bellvale, September 18, 1893.
Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Glands of throat and thoracic caviety affected. Three abscesses in left and one in right lung.

Herd of W. H. Wisner. Bellvale, September 19, 1893.
Variety, ———. Age, 10 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis, but pleurisy of old standing, with slight adhesions.

Herd of Jesse Durland. Warwick, September 19, 1893.
Variety, ———. Age, 12 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis.

Herd of W. S. Benedict. Warwick, September 27, 1893.
Variety, ———. Age, 9 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed glandular tuberculosis. Glands of throat and mediastinal, specially affected.

Herd of P. S. Post. Warwick, September 27, 1893.
Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis.
Note.—Pulmonary and other organs sound. Must be some condition of the lungs unknown to me to produce the sounds heard in lungs during life.

Herd of A. R. Halbert. Warwick, September 27, 1893.
(1) Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(2) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis. Slight adhesions of lungs to costal pleura.

(3) Variety, ———. Age, ———. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed no tuberculosis. Abnormal sounds on both sides of chest during life.

Herd of Frank Strong. Blooming Grove, October 5, 1893.
Variety, ———. Age, 14 years. Sex, female.
Condition, poor.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Lungs, on both sides affected.

Herd of Wm. H. Hallock. Washingtonville, October 5, 1893.
Variety, ———. Age, 9 years. Sex, female.
Tuberculin test, not given.
Post-mortem showed pulmonary consumption, both lungs.

A. C. Bull. New Windsor, October 4, 1893.
Variety, ———. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed pulmonary phthisis. Both lungs and mediastinal glands affected.

Herd of G. M. Clark. Monroe, October 5, 1893.
Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Post-mortem showed pulmonary phthisis. Both lungs affected.
Note.—One cow, taken before this one, was killed on place being too weak to drive away for slaughter.

Herd of Elizabeth Griffin. Monroe, October 13, 1893.
Variety, Grade Alderney. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed tuberculosis.

Herd of S. J. Howell. Goshen, October 15, 1893.
Variety, ———. Age, 12 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Mediastinal glands much enlarged.

Herd of Joseph Tuthill. Goshen, October 20, 1893.
Variety, ———. Age, 9 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed most of the glands, and both lungs, affected.

Herd of J. G. Farley. Goshen, October 20, 1893.
(1) Variety, Jersey. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis.

(2) Variety, ———. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin test, not given .
Post-mortem showed general tuberculosis.

Herd of S. S. Halbert. Chester, October 12, 1893.
Variety, ———. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Glands of throat much enlarged. Killed on farm.

Herd of I. H. Green. Chester, October 20, 1893.
(1) Variety, ———. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin test, not given.
Post-mortem showed general tuberculosis. Both lungs and glands generally affected.

(2) Variety, ———. Age, 11 years. Sex, female.

Condition, ———.

Tuberculin test, not given.

Post-mortem showed pulmonary phthisis. Both lungs and mediastinal glands affected.

Note.— Both these cows have been under suspicion a long time.

OTSEGO COUNTY.

Herd of E. G. Birdsall. Otego, May 29, 1893.

(1) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	101.8
4.30 a. m.	102.6
7.15 a. m.	105.7
10 a. m.	105.1
11.30 a. m.	104.9

Throat glands enlarged, one fist-size, and one nut-size. Post. and ant. mediastinal, and cardiac glands affected. Large abscess in post. portion of right lung; smaller ones in left. Pleural attachments of right lung and diaphragm. Miliary tuberculosis of pleura. Miliary tubercles in omentum.

Diagnosis.— Generalized tuberculosis. Severe case.

(2) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.2
4.30 a. m.	101.8
7.15 a. m.	103.8
10 a. m.	105.2
11.30 a. m.	104.6

Anterior, mediastinal, and cardiac lymph. nodes of butternut size, and with tubercles. Enlarged ovary.

Diagnosis.— Localized tuberculosis. Mild case.

(3) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m	102.7
4.30 a. m	102.0
7.15 a. m	102.8
10 a. m	104.1
11.30 a. m	104.9
1 p. m	104.6

Throat glands with minute foci. Post. and ant. mediastinal, and cardiac glands very large, the posterior, with scattered foci. Very little pleurisy. Right lung, with large areas of pneumonia, due to tubercles, at least one-third involved; also, other patches. Left lung, with mass of smaller size, posteriorly. Lymphatic nodes (mesenteries) of intestine, with scattered foci; also some miliary peritonitis, not extensive. Uterus, with foetus.

Diagnosis.— Generalized tuberculosis. Severe case, mostly pulmonary.

(4) Variety, ———. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m	102.0
4.30 a. m	101.0
7.15 a. m	100.7
10 a. m	101.8
11.30 a. m	100.9
1 p. m	101.3

Cow, a continual hacker or cougher. Throat, lymphatics, with foci; mediastinal, and cardiac, very large, especially the posterior; hepatic, also large. Mesenteric, also with foci. Right lung, with

fist-size tubercle, each affected. Main lesions consisted in the grapes in each cavity. Omentum studded with tubercles. Some on abdominal wall, aborted some time ago. No uterine tubercles.

Diagnosis.— Generalized tuberculosis. Severe case, mostly pleuritic.

(5) Variety, ———. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.0
4.30 a. m.	102.0
7.15 a. m.	103.4
10. a. m.	105.2
11.30 a. m.	104.6

Throat lymphatics slightly affected. In the trachea, two or three, between the cartilage ends. Mediastinal and cardiac, highly affected, each lung, with fist-size nodules, and others smaller. Right lung attached to wall by pleuritic adhesion. Hepatic, lymphatics, with few foci. Much peritonitis, with miliary tubercles. Uterus, with miliary tubercles; also the inguinal, also the r. pregnal or flank gland.

Diagnosis.— Generalized tuberculosis; severe case.

(6) Variety, ———. Age, ———. Sex, female.

Condition, ———.

Tuberculin experiment:

Time	Temperature.
7.15 p. m.	103.0
4.30 a. m.	101.8
7.15 a. m.	103.8
10 a. m.	104.7
11.30 a. m.	104.6

Throat lymphatics, enlarged, pigeon-egg size. Cardiac, enlarged, yellow foci (hen's egg). Mediastinal glands, slightly all with yellow rays. None in lungs.

Diagnosis.— Tuberculosis, localized, mild case.

(7) Variety, ———. Age, ———. Sex, female.
Tuberculin experiment:

Time	Temperature.
7.15 p. m.	101.8
4.30 a. m.	102.4
7.15 a. m.	105.8
10 a. m.	106.1
11.30 a. m.	104.9

Throat lymphatics, slightly affected. Two foci in trachea. Mediastinal and cardiac lymphatics, with foci. Very large, solid mass, half-head size, in left lung. Scattered nodules in each.

Diagnosis.— Tuberculosis, thoracic, severe.

(8) Variety, ———. Age, ———. Sex, female.
Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	104.4
4.30 a. m.	102.9
7.15 a. m.	103.8
10 a. m.	103.5
11.30 a. m.	103.4

Throat lymphatics, with few foci. One abscess between cartilage and mucus membrane of trachea. Pleura of both thoracic cavities invaded by the grape variety, especially along posterior borders. Lungs, substance, with few small tubercles. Anterior and posterior mediastinal, and cardiac lymph. nodes, very large, also hepatic. Peritonitis and miliary tubercles in omentum and the adjacent abdominal walls. Pericarditis to slight extent. Miliary tubercles in uterus. Substance of liver, with few tubercles.

Diagnosis.— Generalized tuberculosis, severe case. Mostly serous membrane attacked or consumptive variety.

(9) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m	102.6
4.30 a. m	102.0
7.15 a. m	105.6
10 a. m	104.4
11.30 a. m	104.3

Throat, mediastinal and cardiac, lymph. nodes, very large (size of goose egg). Anterior lobes of lungs on each side filled with nut-size tubercles. An extensive pleuritic inflammation commencing. Mesenteric lymphatics, with foci. Liver, substance, with few foci. Uterus, with scattered, white points.

Diagnosis.— Generalized tuberculosis, severe.

(10) Variety. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m	101.8
4.30 a. m	101.4
7.15 a. m	101.1
10 a. m	102.4
11.30 a. m	104.3
1 p. m	104.6

Throat lymphatics, mediastinal and cardiac, large and invaded, each lung with fist-size abscess and many smaller foci. Pneumonia of right, in scattered globules. Probably due to tubercle, from appearance of sections. Mesenteric lymphatics of intest. affected. Uterus with foetus of two months.

Diagnosis.— General tuberculosis.

(11) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m	102.4
4.30 a. m	100.8
7.15 a. m	101.6

Time.	Temperature.
10 a. m.	102.2
11.30 p. m.	102.5
1 p. m.	102.4

Four or five centres of infection. One lobe in margin of right lung. Posterior mediastinal gland much enlarged, and anterior mediastinal and cardiac some. Mesenteries, with scattered nodes; also, some on omentum.

Diagnosis.— Generalized tuberculosis, not well advanced.

(12) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.7
4.30 a. m.	102.0
7.15 a. m.	103.8
10 a. m.	105.4
11.30 a. m.	106.1
1 p. m.	106.9

One very small millet seed node in cardiac gland. Few other glands, quite reddened in spots.

Uterus with eight months foetus.

Diagnosis.— Incipient tuberculosis.

(13) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.2
4.30 p. m.	102.6
7.15 a. m.	106.1
10 a. m.	104.8
11.30 a. m.	105.4
1 p. m.	105.4

Throat lymphatics, affected. Trachea, with two abscesses. Mediastinal, cardiac and mesenteric lymphatics, affected. Each lung, with fist-size nodule and a few smaller ones.

Diagnosis.— Generalized tuberculosis; medium case.

(14) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	101.6
4.30 a. m.	100.7
7.15 a. m.	101.8
10 a. m.	104.2
11.30 a. m.	104.7
1 p. m.	106.0

Throat lymphatics, neck, mediastinal and cardiac, all invaded. Right lung attached by large adherent mass (fist-size or larger); also the left lung along the posterior border. Each lung, with large mass in substance and scattered nodes on omentum. Lymph. nodes of mesenteries, also affected.

Diagnosis.— Generalized tuberculosis.

(15) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.3
4.30 a. m.	103.0
7.15 a. m.	106.0
10 a. m.	105.0
11.30 a. m.	105.2
1 p. m.	104.6

Mediastinal and cardiac lymphatics, invaded. Both lungs with many scattered nodules. Butternut-size masses on pleura of right side. Hepatic gland invaded. Uterus, with small foetus.

Diagnosis.— Generalized tuberculosis.

(16) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	101
4.30 a. m.	101

Time.	Temperature.
7.15 a. m.	103.4
10 a. m.	104.6
11.30 a. m.	103.8

Throat, neck, mediastinal, cardiac, preaxillary, inguinal, and r. pregenal lymphatics, all invaded, some extensively. Fist-size tumor in each lung and other smaller ones, the largest in the left lung. Very many hickory-nut-size tumors on peritoneum and wall of abdomen, some on peritoneum of uterus.

Diagnosis.— Generalized tuberculosis; severe.

(17) Variety, ———. Age, 1 year. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.8
4.30 a. m.	103.6
7.15 a. m.	104.4
10 a. m.	104.5
11.30 a. m.	104.5
1.30 p. m.	104.0

In this yearling bull, nothing was found, except, perhaps, a patch of pleurisy along a rib on left side.

Diagnosis.— ———.

(18) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.8
4.30 a. m.	101.0
7.15 a. m.	101.1
10 a. m.	100.8
11.30 a. m.	101.0

No lesions found.

(19) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.9
4.30 a. m.	100.4
7.15 a. m.	101.4
10 a. m.	103.5
11.30 a. m.	104.3
1 p. m.	104.2

Nothing found except, perhaps, a faint peritonitis in vicinity of spleen, which had a suspicious appearance.

Diagnosis, ———.

(20) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.6
4.30 a. m.	102.1
7.15 a. m.	106.4
10 a. m.	105.2
11.30 a. m.	104.9

Throat glands, goose-egg size. Peritonitis of omentum, near spleen, and of adjacent abdominal wall, of tuberculous origin.

Diagnosis.— Incipient tuberculosis.

(21) Variety, ———. Age, ———. Sex, female.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	102.
4.30 a. m.	102.
7.15 a. m.	101.
10 a. m.	101.
11.30 a. m.	101.

Throat glands rather larger than would be expected.

(22) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	104.0
5 a. m.	103.4
7.30 a. m.	104.7
10 a. m.	105.4
12 m	105.4
1 p. m.	105.8

Throat lymphatics, mediastinal, hepatic and mesenteric glands, affected.

Lungs adherent, especially the right. Pericardium attached to heart. Abscess in right lung as large as two fists. Tuberculous deposits on pleura of right and left. Few nodules in left. Nodules scattered over mesentery and omentum.

Diagnosis.— Tuberculosis, severe.

(23) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	102.6
5 a. m.	101.6
7.30 a. m.	101.4
10 a. m.	101.0
12 m	101.2
1 p. m.	101.2

(No remarks as to result of autopsy.)

(24) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.3
5 a. m.	101.2
7.30 a. m.	100.6
10 a. m.	100.4
12 m	100.6
1 p. m.	100.6

Post. border of lung attached by pleuritic fringe.

Diagnosis.— ———.

(25) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.1
5 a. m.	101.4
7.30 a. m.	101.8
10 a. m.	102.0
12 m	102.6
1 p. m.	102.7

Throat lymphatics, enlarged, with several foci. Grayish foci in mediastinal glands. Scattered nodules, very small, over mesenteric of intestine, medium order.

Diagnosis.— Tuberculosis, generalized.

(26) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.4
5 a. m.	101.6
7.30 a. m.	101.4
10 a. m.	101.4
12 m	101.4
1 p. m.	101.2

Very slight peritonitis over omentum.

(27) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.7
5 a. m.	102.2
7.30 a. m.	101.9
10 a. m.	102.0
12 m	102.0
1 p. m.	102.3

Throat lymphatics, enlarged, grayish foci, possibly tuberculous.

Diagnosis.— Incipient tuberculosis.

(28) Variety, ———. Age, 1 year. Sex, female.

Tuberculin experiment:

Time.	Temperature.
9 p. m	103.8
5 a. m	101.4
7.30 a. m	101.2
10 a. m	101.4
12 m	100.6
1 p. m	101.1

Posterior mediastinal gland, quite large, five inches by three inches by one inch, studded with tubercles.

Diagnosis.— Incipient tuberculosis.

Remarks.— The inspector, writing under date of March 31, 1893, states that the disease appeared seven years ago, and since then ten head have been lost, the last one two months ago. The original Ayrshire stock was purchased of Henry Hawkes, Saw Hill (R. R. station, Wellsbridge), thirteen years before the disease appeared. The physical examination on March thirty-first showed only two as tuberculous, and seven suspicious. The disease from which the ten head died was regarded as "grapes." As to the value of the tuberculin test the inspector states: "In this experiment, the tuberculin test proved successful. Its failure was slight in comparison with that of physical diagnosis. Animals with the slightest reactions were selected. Among the heifers and cows, those that yielded reactions, between 102 and 103 degrees. These temperatures, on comparison, will be found to be less than the initial temperatures of the evening previous; and are less than those usually chosen as indicative of a reaction.

Cow No. 8 had a high temperature, and fell to rise, but not so high as the initial temperature; while No. 4 maintained a nearly normal temperature throughout. These were both in poor condition and proved to be bad cases.

No. 12 should have proved by the test a bad case. She was heavy with calf. She had but one minute tubercle discernible.

No. 17 was a yearling and received three-fifths of the dose that others did. The other yearlings received but one-tenth of a cubic centimeter each.

There is no indication of a reaction in the case of heifer No. 28, which received the same dose as the others, Nos. 22, 23, 24, 25, 26, and 27. No. 28 was a case which might easily have become the origin of another tuberculous herd.

Nos. 19 and 17 both gave apparently well-marked reactions. On account of the accuracy with which the tuberculin marked the diseased animals, I am inclined to doubt post-mortem observation, although I took particular care with each. No decided lesions were seen. Peritonitis in 19 and pleurisy in 17, and that very slightly, were noticed.

Herd of Egbert L. Scott. Milford, August 21, 1893.

(1) Variety, Grade, Jersey. Age, 5 years.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	102.1
9 p. m., Injection:	———
8 a. m.	102.4
10.30 a. m.	103.0
2 p. m.	103.4
3.30 p. m.	103.0
4.50 p. m.	102.8

Right shoulder gland enlarged with extravasation. Flank gland, reddened. Post. pharyngeal, enlarged pigeon-egg-size. Inguinal gland, enlarged and reddened. Udder, swollen. Two fist-size nodules, filled with serum. Milk sinus, lined with cheesy wall, probably of traumatic origin, but possibly tuberculous. Post. mediastinal, with few small foci. Cardiac, enlarged with minute shot-size foci. Neoplastic tags on spleen.

Diagnosis.— Incipient tuberculosis.

(2) Variety, Grade Jersey. Age, 5 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.0
Injection:	———
8 a. m.	106.4
9 a. m.	106.6

Left post. pharyngeal, goose-egg-size and cheesy. Right post. pharyngeal, with foci. Right shoulder gland, enlarged, cortical portion fibrous. External glands, slightly enlarged. Post. mediastinal gland, eight by four by two and a half inches, with hard, cheesy contents. Numerous other egg-size mediastinal glands present. Cardiac gland, goose-egg size, with cheesy matter. Right lung, three abscesses. Left lung, with numerous small foci in post. lobe. Hepatic gland, with nut-size focus and incipient foci. Inner side of omentum, neoplasms and some serum.

Diagnosis.— Advanced tuberculosis.

(3) Variety, Native. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.8
Injection:	———
8 a. m.	101.8
9 a. m.	104.5

Flank glands, reddened. Left inguinal, gray, fibrous foci. Post. mediastinal, shot-size foci. Anterior mediastinal, enlarged. With narrow, cheesy patch. Cardiac, with numerous small foci.

Diagnosis.— Incipient tuberculosis.

(4) Variety, Grade Jersey. Age, 7 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.4
Injection:	———
8 a. m.	101.1
9 a. m.	102.8
2.30 p. m.	104.1

Right post. pharyngeal, egg-size, with cheesy mass. Other gray, fibrous foci. Post. mediastinal, fist-size, with cheesy contents. Anterior, likewise fist-size. Cardiac, normal. Omentum, with few scattered tubercles. Intestinal lymphatics, with numerous pea-size tubercles.

Diagnosis.— Generalized tuberculosis.

(5) Variety, Native. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Temperature	101.8
Injection:	———
Temperature	103.2
Temperature	104.5

Right shoulder lymphatic, little enlarged, with gray foci, hemorrhagic extravasation. Post. pharyngeal, goose-egg size, with numerous nut-size foci. Right lung, with post. border attached by old pleuritic adhesion. Right flank gland, reddened. Post. mediastinal, enlarged, with few foci. One cheesy neoplasm on inner surface of the pericardium, also on the inner side of the lesser sac of the omentum associated with tubercles. Left shoulder reddened, with incipient foci. This animal, in the stable, when at rest, was a snorer.

Diagnosis.— Generalized tuberculosis.

(6) Variety, Grade Durham. Age, 8 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	101.3
do	101.4
2 p. m.	103.2
3.30 p. m.	103.4
4.30 p. m.	102.6

Right shoulder gland, enlarged, reddened, with incipient tubercles. Inguinal, with incipient tubercles. Post. mediastinal, with one cheesy tubercle. Cardiac, one cheesy tubercle. Small glands, fibrous and hard. Hepatic lymphatics, enlarged, no tubercle. One post. pharyngeal gland, slightly enlarged, other reddened. Left shoulder gland, enlarged, with fibrous patches, but no cheesy tubercle.

Diagnosis.—Incipient tuberculosis.

(7) Variety, Grade Durham. Age, 8 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	103.8
Injection:	———
Morning	102.0

Coughed badly. Flanks, drawn. Hide, bound. Animal in stanchion ejected a mass of pus of light yellowish hue. Condemned on general appearances. No further temperatures taken. External glands, enlarged, but with small tubercles. One post. pharyngeal gland, the size of a large orange. Other, egg size. Both with tuberculous contents. Post. mediastinal, eight by three and a half by two inches, with cheesy contents. Anterior mediastinal, larger than two fists. Cardiac, fist-size. Anterior and posterior margins of pleural surfaces of lungs

attached to thoracic walls and diaphragm. The substance of the lungs permeated with tubercles, especially toward the dorsum side of thorax, covered by miliary tubercles. Hepatic lymphatics, enlarged, fist-size. Bunches of tubercle attached to liver, but superficial. Spleen, covered with tubercle. Uterus, normal.

Diagnosis.— Advanced general tuberculosis.

(8) Variety, Native. Age, 8 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.7
Injection:	———
Morning	101.5
do	101.8
do	102.5
do	102.2
do	101.8

Post. pharyngeal, enlarged, egg-size, with tubercles. Inguinal gland, enlarged. Post. and ant. mediastinal, with minute miliary tubercles. Cardiac, slightly reddened, otherwise normal. Lungs, normal. Liver, with minute tubercles. Hepatic, with minute miliary tubercles. Omentum, with tuberculous neoplasms. Intestinal lymphatics, with tubercles. All tubercles. cheesy. Left shoulder gland, enlarged.

Cow had been on the place six months. Had been fed with skim milk swill from herd during the spring.

Diagnosis.— Incipient general tuberculosis.

(9) Variety, Grade Durham. Age, 7 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	102.4
do	103.9

Time.	Temperature.
Afternoon, 2.30	103.1
do	102.4
do	102.3

Post. pharyngeal, with fibrous tuberculous foci. Left lung, attached to thoracic wall at inferior margin. Diaphragm, with neoplasms. Left lung, also attached to diaphragm. Few neoplasms on right side. Post. mediastinal, enlarged, with cheesy foci. Ant. mediastinal, with few foci. Cardiac, fist-size, with cheesy foci. Pericardium, with neoplasms. Left lung, with numerous scattered nodules. Right lung, with numerous nut and pea-size nodules. Inguinal gland, with whitened fibrous areas. Spleen, with neoplasms on attached side. Hepatic, with cheesy foci and white fibrous areas. Liver, with cheesy foci (within). Intestinal lymphatic gland, with few cheesy nodules. Shoulder gland, enlarged, periphery, whitened and fibrous.

Diagnosis.— General tuberculosis.

(10) Variety, Native. Age, 8 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Afternoon	101.4
Injection:	———
Evening	104.2
do	104.8

Inguinal gland, indurated areas and enlarged. Shoulder gland, enlarged. Hemorrhagic injection. Anterior mediastinal and cardiac, with cheesy abscess. Left lung, with cheesy abscess. Middle lobe of right lung, dark red, with many cheesy foci. Post. mediastinal, with few scattered foci. Intestinal lymphatic, hemorrhagic. Post. pharyngeal, with hemorrhagic and fibrous foci.

Diagnosis.— Generalized tuberculosis.

(11) Variety, Native. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.3
Injection:	———
Morning	105.4
do	105.7

Post. pharyngeal, normal. Left shoulder gland, reddened, right, also, one whitened patch. Both flank glands, reddened. Anterior mediastinal, one egg-size, with numerous cheesy foci. Hepatic, with cheesy foci. Neoplasms on omentum. Intestinal lymphatics, with one foci.

Diagnosis.—Incipient generalized tuberculosis.

(12) Variety, Grade Jersey. Age, 6 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time	Temperature.
Evening	103.2
Injection:	———
Morning	103.1
do	103.6

This cow and No. 7 had been turned into a field because of being badly diseased. Condition, very thin, and hide bound. Right pharyngeal, egg-size, with cheesy nodules. Left. post. pharyngeal, nodular, with cheesy centres, the right lung, with pleuritic adhesions, covered with tubercles. Right thoracic wall, covered with large area of grape-like masses. Right lung, permeated with cheesy masses, also the left. Nodular masses appended to post. border of each lung. Numerous isolated masses on left thoracic wall. Right anterior lobe, covered with mass of grape-like tubercles; underneath this, an abscess in lung, with yellow, creamy pus. This cavity is connected with the trachea. Omentum, covered with grape-size tubercles. Liver,

with numerous tuberculous masses scattered over its surface. Hepatic gland, nodular, with cheesy nodules. Festoons of grapes attached to rectum. Uterus, tuberculous. Placentae, covered with cheesy material. Sub-mucus coat of uterus, covered with numerous minute foci. All mediastinal, enlarged. Anterior, six to nine inches long. Cardiac, enlarged and numerous foci in intestinal lymphatics.

Diagnosis.—Advanced generalized tuberculosis.

(13) Variety, Native. Age, 4 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	103.5
do	105.6

Post. pharyngeal, enlarged. Numerous deposits, egg size. Post. mediastinal, with few shot-size foci. Cardiac, with numerous minute foci. Anterior mediastinal, with one or two foci. Intestinal lymphatics, with pea-size foci. Omentum, with few tubercular neoplasms.

Diagnosis.— Incipient general tuberculosis.

(14) Variety, Grade Jersey. Age, 4 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	105.0
do	105.0

Left shoulder gland, with hemorrhagic extravasation and fibrous foci. Right post. pharyngeal, enlarged, goose-egg size. Numerous pea-size foci. Left post. pharyngeal, enlarged, slightly.

Post. mediastinal, enlarged, with hemorrhagic extravasation. Cardiac gland, egg-size, with cheesy foci. Anterior mediastinal, with extravasation and foci. Peritoneum, with slight neoplastic growths. Intestinal lymphatics, with hemorrhagic points and cheesy foci.

Diagnosis.— Generalized tuberculosis.

(15) Variety, Grade Jersey. Age, 6 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	102.8
do	104.8

Post. thoracic, enlarged, English-walnut size, with numerous pea-size, cheesy foci. Post. mediastinal, with numerous small foci. Anterior mediastinal, enlarged. Cardiac, enlarged, with small foci.

Diagnosis.— Incipient tuberculosis.

(16) Variety, Grade Jersey. Age, 10 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	100 .8
Injection:	———
Morning	103 .4
do	105 .0

Post. pharyngeal, enlarged, with large, cheesy nodules. Superficial gland, reddened. Shoulder and inguinal, with tubercular areas in fibrous stage. Cardiac, enlarged, with numerous foci. Anterior lobe of left lung, with tubercular nodules. Dorsal border, post. lobe of right lung, with miliary tubercles. Neoplasms on inner surface of pericardium. Hepatic gland, with

nut-size, cheesy nodules. Intestinal lymphatics, with cheesy nodules.

Diagnosis.— Incipient generalized tuberculosis.

(17) Variety, Grade Durham. Age, 11 years. Sex, female. Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	102.1
do	103.7
do	104.8

Post. pharyngeal, goose-egg size, with pea-size nodules, other pigeon-egg size, with one nodule. Post. mediastinal, with four or five pea-size, cheesy nodules. Anterior, with four or five pea-size nodules. Left lung, with nut-size, cheesy nodules. Right lung, with two fist-size abscesses and several surrounding cheesy foci. Intestinal lymphatics, with numerous, cheesy foci. Dorsal surface of liver, with about twenty tuberculous nodules. Hepatic gland, with numerous nut-size foci.

Diagnosis.— Generalized tuberculosis.

(18) Variety, Grade Durham. Age, 8 years. Sex, female. Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	102.7
do	103.7
do	103.3
4 p. m.	103.4
5 p. m.	103.6

Left shoulder gland, extravasated with foci. Flank gland and post. mediastinal, enlarged. Scattered minute foci, in cardiac gland. Post. margin of lungs, with neoplastic fringe. Pericardium, with half a teacup full of serous fluid. Omentum, neoplastic growths. Middle part of post. pharyngeal, fibrous.

Diagnosis.— Incipient, generalized tuberculosis.

(19) Variety, Grade Devon. Age, 6 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	104.8
do	105.3

Post. pharyngeal, with one fibrous foci, and other, with several cheesy foci Post. mediastinal, with cheesy pea-size foci Anterior mediastinal, four by two by one inch, with confluent foci, and broken down mass. Four or five nut-size nodules in left lung. Intestinal lymphatics, with cheesy tubercles.

Diagnosis.— General tuberculosis.

(20) Variety, Grade Jersey. Age, 5 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.9
Injection:	———
Morning	104.6
do	105.5

Left shoulder gland, reddened. Anterior thoracic gland, enlarged, with cheesy foci. Post. mediastinal, three times enlarged, with two foci. Anterior mediastinal, cheesy and enlarged. Cardiac, goose-egg-size, filled with cheesy matter. Neoplastic fringe on border of right lung. Anterior lobe of left lung, with large cheesy nodules. Intestinal lymphatics, with

pea-size tubercles, attached to side of spleen, covered with neoplasms. Hepatic lymphatics, with few cheesy foci.

Diagnosis.— Generalized tuberculosis.

(21) Variety, Grade Holstein. Age, 5 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	101.8
do	103.8
do	103.8
do	103.4

Right anterior mediastinal, enlarged, with hemorrhagic and cheesy extravasation as large as two fists. Left anterior mediastinal, with cheesy foci. Incipient neoplasm, on inner side of omentum.

Diagnosis.— Tuberculosis.

(22) Variety, Native. Age, 4 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	101.8
do	101.7
do	103.0
do	102.8
5 p. m.	103.1

Left shoulder gland, enlarged, with fibrous foci. Anterior part of right lung adherent by old pleuritic attack. Post. mediastinal gland, with cheesy foci. Anterior mediastinal, enlarged.

Cardiac, with gray foci. Neoplastic growth, near base of aorta. Left inguinal, with whitish fibrous foci (corticle portion). Neoplastic growths on omentum. Hepatic lymphatics, enlarged. Omentum, adherent by old adhesions.

Diagnosis.— Incipient tuberculosis, probably generalized.

(23) Variety, Grade Jersey. Age, 2 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	105.8
do	106.2

Post. pharyngeal, enlarged. Right shoulder gland, with hemorrhagic extravasation, apparently injured. Anterior thoracic, cheesy. Post. mediastinal, enlarged, with scattered pea-size nodules. Intestinal lymphatics, enlarged, with numerous nut-size nodules. Considerable serum in abdomen. Left shoulder gland, enlarged,

Diagnosis.— Incipient, generalized tuberculosis.

(24) Variety, Grade Durham. Age, 2 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	103.4
do	104.1
do	103.4

Post. mediastinal, enlarged, with many nodules. Pericardium, with neoplasms. Hepatic lymphatics, enlarged.

Diagnosis.— Incipient tuberculosis, probably generalized.

(25) Variety, Grade Jersey. Age, 2 years. Sex, female. Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	100.8
Injection:	———
Morning	104.2
do	103.3
do	104.3

Post. pharyngeal, enlarged. Right shoulder, enlarged, with white, pea-size, fibrous areas. Flank gland, enlarged. Post. mediastinal, enlarged and with tubercular nodules. Anterior mediastinal, with nodules. Post. thoracic, with numerous nodules. Intestinal lymphatics, enlarged. Neoplasm on omentum. Hepatic, enlarged and reddened. Right shoulder, with fibrous, incipient tubercles.

Diagnosis.— Incipient tuberculosis, generalized.

(26) Variety, Grade Jersey. Age, 1 year. Sex, female. Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	100.8
Injection:	———
Morning	105.2
do	105.2

Post. mediastinal, cheesy foci. Anterior mediastinal, about four or five times enlarged, with cheesy foci. Cardiac, goose-egg size, white and fibrous, with cheesy centres. Right lung, with fist-size mass on cardiac side of lung. Left shoulder gland, enlarged, with tubercular foci. Right shoulder gland, enlarged, corticle part fibrous. Post. pharyngeal, enlarged, no foci. Intestinal lymphatics, enlarged, with hemorrhagic points.

Diagnosis.— Generalized tuberculosis.

(27) Variety, Grade Jersey. Age, 2 years. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	———
Morning	105.3
do	105.4

Post. pharyngeal gland, enlarged and cheesy. Right shoulder gland, with incipient tubercle. Right thoracic wall, neoplasm on ventral margin. Post. mediastinal, with foci, and enlarged. Anterior mediastinal, with few foci, and enlarged. Left shoulder gland, with incipient tubercles.

Diagnosis.— Incipient tuberculosis.

(28) Variety, Grade Jersey. Age, 1 year. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	———
10 a. m.	102.
12.30 p. m.	103.
3 p. m.	104.

Post. pharyngeal enlarged, size of a bantam egg.
Diagnosis.— Probably incipient tuberculosis.

(29) Variety, Grade Jersey. Age, 6 months. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	10[illegible].8
Injection:	———
8 a. m.	10[illegible].1
10.15 a. m.	10[illegible].4
1 p. m.	10[illegible].8

Post. mediastinal, slightly affected, with cheesy bunches. Left lung, with pea-size tubercle. Anterior mediastinal, cheesy. Hepatic, enlarged. One flank gland, tuberculous.

Diagnosis.— Incipient generalized tuberculosis.

(30) Variety, Grade Jersey. Age, 5 months. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	103.2
Injection:	———
Morning	104.6
do	103.4
do	102.6

Post. mediastinal, enlarged, with numerous calcareous masses. A second mediastinal gland with calcareous masses.

Diagnosis.— Incipient tuberculosis.

(31) Variety, Grade Jersey. Age, 5 months. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
Evening	102.7
Injection:	———
Morning	102.2
do	103.4
do	102.4

Left shoulder gland, enlarged and reddened.

Diagnosis.— ———.

(32) Variety, Grade Jersey. Age, 5 months. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	104.8
Injection:	———
Morning	103.1
do	102.5
do	102.4

No lesions found.
Diagnosis.— ———.

(33) Variety, Grade Jersey. Age, 5 months. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.5
Injection:	———
Morning	101.6
do	101.0
do	101.6

No lesions found.
Diagnosis.— ———.

Remarks.— Only two of the cattle were declared tuberculous by physical inspection. None were free from suspicion by the tuberculin test. Writing under date of August 16, 1893, the inspector states, that, according to the owner's report, he lost the first animal three years previously, from an unknown disease; the following year he lost two more, and this year one. They were mostly old cattle. The herd had been on the place for a long time, but none were lost so long as they raised their own calves. The first that died was bought in. The practice for the last half a dozen years had been to improve the herd by buying other stock. Up to within the last year, the cattle had been fed, in part, as is the custom in this region, upon the skim-milk. The thorough infection of this herd and the great amount of generalized tuberculosis seems to be due to the continuous feeding of their own milk, to which they have been subjected. This means of infection, added to that which is common in other herds, has produced this disease in this herd to an unexpected extent.

The herd and calves were tested with tuberculin, one-quarter c. c. tuberculin for each in nine times the amount of one-half per cent carbolic solution in boiled water. The calves received about one drop to one and a half drops. Temperatures were taken in the evening, and the material injecte

over the scapula. On the following day other temperatures were taken at intervals of two and a half to three hours.

A serious question arose in this case as to the disposition of 1,400 pounds of butter, the product of this tuberculous herd. The matter was referred to the Department of Agriculture.

Herd of Mrs. Fred. Roberts (Southworth Bros., tenants). Cooperstown, December 8, 1893.

(1) Variety, Devon. Age, 9 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.3
Injection:	
8 a. m.	106.6
10.30 a. m.	107.2
12.30 p. m.	106.2

Mediastinal and left bronchial lymphatic glands, very large, fist size, with cheesy and gritty contents. Hepatic, with nut-size, caseous mass. Intestinal, with several large, egg-size, calcareous, cheesy masses. Pericardium, with few fish roe, pearly, tubercles, scattered. One large bunch of tubercle between lung and diaphragm. Middle lobe of right lung consolidated. Abscess, pusiform, emptying into trachea. Scattered nodules in each lung. Uterus, with female foetus, 8 months old.

Diagnosis.— Tuberculosis.

(2) Variety, Devon. Age, 9 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.4
Injection:	
8 a. m.	102.6
10.30 a. m.	102.6
12.30 a. m.	101.6
2.30 p. m.	102.8

No lesions reported.
Uterus, with foetus, female, 7 months old.
Diagnosis.— ———.

(3) Variety, Jersey. Age, 8 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.6
Injection:	
8 a. m.	101.2
10.30 a. m.	102.6
12.30 a. m.	102.3
2.30 p. m.	102.3

Post. mediastinal, all enlarged. No necrosis nor caseation.
Uterus, foetus, 2 months, female.
Diagnosis.— ———.

(4) Variety, ———. Age, 9 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	102.4
Injection:	
8 a. m.	102.1
10.30 a. m.	102.4
12.30 a. m.	102.4
2.30 p. m.	102.0

Post. mediastinal, with three or four pea-size tubercles.
Uterus, with female foetus, 8 months.
Diagnosis.— Tuberculosis.

(5) Variety, ———. Age, 12 years. Sex, female.
Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.3
Injection:	
8 a. m.	101.6
10.30 a. m.	102.7
12.30 a. m.	103.0
2.30 p. m.	103.0

Navel, with cheesy, nut-size mass. Cheese like tuberculosis.
Uterus, with male foetus, 2 months.
Diagnosis.— Doubtful if tuberculosis.

(6) Variety, Devon. Age, 18 months. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.2
Injection:	
8 a. m.	103.2
10.30 a. m.	103.8
12.30 a. m.	103.4
2.30 p. m.	103.0

Calved two days ago.
No lesions reported, and no diagnosis given.

(7) Variety, Devon. Age, 18 months. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.8
Injection:	
8 a. m.	101.0
10.30 a. m.	102.4
12.30 a. m.	102.4
2.30 p. m.	101.8

Uterus, with male foetus, 2 months old.
No lesions reported, and no diagnosis given.

(8) Variety, Jersey. Age, 3 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.2
Injection:	
8 a. m.	103.6
10.30 a. m.	102.8
12.30 a. m.	103.8
2.30 p. m.	102.6

Uterus, with female foetus, 7-8 months.
No lesions reported, and no diagnosis given.

(9) Variety, Devon. Age, 4 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.4
Injection:	
8 a. m.	104.5
10.30 a. m.	107.8
12.30 a. m.	107.0

Post. mediastinal lymphatics, with few scattered, shot-size tubercles. Cardiac, with few scattered cheesy tubercles.
Uterus, with male foetus, 8 months.
Diagnosis.— Tuberculosis, mild.

(10) Variety, Part Jersey. Age 3 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.8
Injection:	
8 a. m.	102.4
10.30 a. m.	103.2
12.30 p. m.	102.8
2.30 p. m.	102.3

Uterus, with female foetus, 2 months.
No lesions reported, and no diagnosis given.

(11) Variety, Devon. Age, 4 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.2
Injection:	
8 a. m.	104.2
10.30 a. m.	107.2
12.30 p. m.	107.4

Gritty masses in anterior mediastinal glands.
Uterus, with male foetus, 7 months.
Diagnosis.— Tuberculosis, mild.

(12) Variety, Holstein. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	103.0
Injection:	
8 a. m.	102.6
10.30 a. m.	102.6
12.30 p. m.	103.0
2.30 p. m.	102.0

Uterus, female foetus, 7-8 months.
No lesions reported, and no diagnosis given.

(13) Variety, Holstein. Age, 4 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.4
Injection:	
8 a. m.	102.6
10.30 a. m.	103.4
12.30 p. m.	102.6
2.30 p. m.	103.2

Uterus, with male foetus, 6-7 months.

No lesions reported, and no diagnosis given.

Remarks.—In reference to the above herd, the inspector remarks: Numerous animals have been reported by the Southworth Bros., as having been in bad condition when slaughtered for beef, and the herd was reported to have been fed upon skim-milk through nearly four years. Acting upon data, supposed to have been gained from the Scott herd, also kept upon skim-milk, I included cattle of very low temperature; i. e., Nos. 4, 6 and 7, not supposing that they could be free. Moreover, there was not an apparently normal temperature in the lot.

The outcome, four tuberculous, and probably nine not, was a surprise, as far as the majority of the non-tuberculous cattle is concerned.

No. 1, No. 9 and No. 11 could easily have been selected from the others by their high temperature, 107.2, 107.8 and 107 degrees. The other tuberculous cow, No. 4 (102.4), would not have been killed unless all the others were selected too.

The quantity of tuberculin used was 0.25 c. c. of Libertz for each animal. No. 11 (107.2) did not present any more visible lesions than No. 4 (102.4).

This herd is a direct confutation of the idea that a tuberculous herd, fed on their own milk, will necessarily have the majority tuberculous. This proof is, though, but of negative value. Aside from the fact that the cow, No. 4, could not have been picked out, a fact frequently demonstrated in our work, this herd shows quite conclusively that we can better depend on the reaction in tuberculous animals by using tuberculin, and selecting high temperatures, 105 degrees and over, than we can upon our judgment, except in rare instances.

Herd of Asa Wing (Estate of). West Laurens, December 6, 1893.

(1) Variety, Guernsey. Age, 12 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.4
Injection:	
8.40 a. m.	104.0
11 a. m.	103.6
1.30 p. m.	104.4

Mediastinal glands, enlarged, with cheesy, scattered foci. Cardiac, fist-size. Right bronchial, nut-size. Serous membranes.— Pulmonary, costal and diaphragmatic, pleura adherent all over by old adhesions not due to tuberculosis. Uterus, no foetus.

Diagnosis.— Tuberculosis, apparently of not long standing.

(2) Variety, Guernsey. Age, 7 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.2
Injection:	
8.40 a. m.	102.6
11 a. m.	103.6
1.30 p. m.	105.4

Post. mediastinal, lymphatic glands, with two pea-size, gritty, caseous masses. Left bronchial, with two caseous, walnut-size centres. Parenchyma of the gland, interspersed with the scattered, cheesy substance. Evidently in new formation. Principal lobe of right lung, with butternut-size, cheesy abscess.

Uterus, with no foetus.

Diagnosis.— Tuberculosis, mild.

(3) Variety, Guernsey. Age, 4 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.8
Injection:	
8.40 a. m.	107.6
11 a. m.	106.2
1.30 p. m.	104.6

Inguinal lymphatic glands, one size of ten by three by two inches. Post. mediastinal, very large, like left bronchial in consistency. Left bronchial, very large, gritty, firm, caseous. Hepatic, all enlarged and cheesy. Portal, with a nut-size focus. Lungs, with few nut-size tubercles, scattered and soft, caseous. Generally on bronchi.

Uterus, with foetus, 3 months. Sex, unnoticed.
Diagnosis.— Tuberculosis.

(4) Variety, Guernsey. Age, 7 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.2
Injection:	
8.40 a. m.	103.2
11 a. m.	103.0
1.30 p. m.	102.6
3 p. m.	102.5

Uterus, no foetus.
No diagnosis.

(5) Variety, Guernsey. Age, 12 years. Sex, female.
Condition, medium.
Tuberculin experiment:

me.	Temperature.
.30 p. m.	102.4
Injection:	———
.40 a. m.	103.2
a. m.	103.7
.30 p. m.	104.0
p. m.	103.4

Uterus, with female foetus, near full time.
Diagnosis.— ———.

(6) Variety, Guernsey. Age, ———. Sex, female.
Condition, ———.
Tuberculin experiment:

ne.	Temperature.
.30 p. m.	100.4
Injection:	———
.40 a. m.	103.2
a. m.	104.3
.30 p. m.	103.0
p. m.	105.0

Uterus, foetus, 7-8 months.
No lesions reported. No diagnosis given.

(7) Variety, Jersey and Guernsey. Age, 4 years. Sex, female.
Condition, fair.
Tuberculin experiment:

ne.	Temperature.
30 p. m.	98.8
Injection:	———
.40 a. m.	102.8
a. m.	102.2
.30 p. m.	103.4
p. m.	103.8

Uterus, foetus, 7-8 months.

No lesions reported. No diagnosis given.

(8) Variety, Jersey. Age, 4 years. Sex, female.
Condition, fair, and very fat.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.6
Injection:	
8.40 a. m.	102.6
11 a. m.	101.8
1.30 p. m.	101.8
3 p. m.	102.6

Uterus, no foetus.

No lesions reported. No diagnosis given.

(9) Variety, Guernsey. Age, 5 years. Sex, female.
Condition, thin.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	102.1
Injection:	
8.40 a. m.	103.2
11 a. m.	103.5
1.30 p. m.	103.0
3 p. m.	103.4

Uterus, with female foetus of 4 months.

No lesions reported, and no diagnosis given.

(10) Variety, Guernsey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.6
Injection:	
8.40 a. m.	102.2
11 a. m.	102.8
1.30 p. m.	101.6
3 p. m.	103.2

Uterus, with foetus, female, 5 months.

No lesions reported. No diagnosis given.

(11) Variety, Guernsey. Age, 4 years. Sex, female.

Condition, fair.

Roaring sound heard on auscultation. Coughs.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.6
Injection:	
8.40 a. m.	102.2
11 a. m.	102.2
1.30 p. m.	101.8
3 p. m.	102.6

Roaring sound on auscultation and cough.

Anterior lobe of left lung collapsed, with cavities filled with muco-purulent or catarrhal products, apparently not tuberculous. Uterus, no foetus.

Diagnosis.— Pneumonia.

"I condemned this case on physical evidence, disregarding the tuberculin test."

(12) Variety, Guernsey. Age, 6 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	101.7
Injection:	
Morning	102.6
do	102.8
Afternoon	103.0
do	103.5

Uterus, foetus, male, 5 months.

No lesion reported. No diagnosis given.

(13) Variety, Guernsey and Jersey. Age, 5 years. Sex, female. Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.3
Injection:	
8.40 a. m.	102.7
11 a. m.	102.6
1.30 p. m.	102.8
3 p. m.	102.2

Post. mediastinal, with few, separate, shot-size, cheesy tubercles. Right lung, principal lobe, with few shot-size tubercles, in an area the size of a pigeon's egg. Uterus, no foetus.

Diagnosis.— Tuberculosis, of recent origin.

(14) Variety, Guernsey. Age, 5 years. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.0
Injection:	
8.40 a. m.	106.0
11 a. m.	106.2
1.30 p. m.	105.0
3 p. m.	104.1

Post. mediastinal, anterior mediastinal, cardiac and other thoracic lymphatic glands, all enlarged, cheesy and gritty, commencing to break down. Left bronchial, fist-size. Others nearly as large. One pea-size nodule in principal lobe of left lung. Uterus, no foetus.

Diagnosis.— Tuberculosis.

(15) Variety, Guernsey. Age, 2 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.0
Injection:	
8.40 a. m.	102.7
11 a. m.	101.6
1.30 p. m.	102.6
3 p. m.	102.3

Retro-pharyngeal gland, enlarged, no foci. Liver, with nut-size abscess filled with pus of creamy consistency, apparently not tuberculous.
Diagnosis.— ———.

(16) Variety, ———. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	102.4
Injection:	
8.40 a. m.	102.0
11 a. m.	102.3
1.30 p. m.	101.6
3 p. m.	103.0

Uterus, foetus, 7 months old.
No lesions reported. No diagnosis given.

(17) Variety, Guernsey. Age, 5 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	102.8
Injection:	
8.40 a. m.	103.4
11 a. m.	103.0
1.30 p. m.	103.2
3 p. m.	104.4

Recently calved.

No lesions reported. No diagnosis given.

Remarks.— In reference to the above results, the inspector states: The results are but five tuberculous out of the seventeen. The post-mortems were held at the Oneonta Fertilizer and Chemical Works. No. 1, Imported Guernsey, was a medium case of tuberculosis. No. 2, a Guernsey, 7 years old, was a mild case. She stood near No. 1 in stanchions. No. 3 was a 4-year-old Guernsey, a bad glandular case, with little in lungs. These three cows stood, when examined, separated by but one cow between each two. Thus: No. 1, No. 17, No. 2, No. 16, No. 3.

No. 13, a 5-year-old Guernsey, was a mild case, standing on opposite side of barn.

No. 14, a 5-year-old Guernsey, standing second beyond, proved a medium case.

No. 11, 4-year Guernsey, condemned mainly on physical examination, had the anterior lobe of right side collapsed, but filled with muco-purulent material, of catarrhal appearance.

No. 15, Guernsey, 2 years old, had a walnut-size abscess in her liver, filled with creamy pus, but apparently not of tuberculous origin.

The maximum temperatures of No. 5 (104), No. 6 (104.3 to 105), No. 7 (103.8), and No. 17 (104), may have been influenced by the presence of calves approaching the end of foetal life.

It will be noticed that one of the tuberculous cows, No. 13, 5 years old, had a maximum temperature no higher than 102.8 degrees F.

In selecting these animals as being suspected of tuberculosis, I judged entirely from past data of tuberculous herds, in which the temperature of 102.5, or over, existed in all tuberculous animals. My errors occurred in the temperatures 102.4 to 102.6, rather than the higher ones.

In view of the results obtained in this and in the Roberts herd, I am led to believe that temperatures lower than 105 in pregnant cows, near full term, and of 103.5 in others, were not indicative of tuberculosis.

The previous results of so many animals with tubercle, whose temperatures ranged between 102.5 and 105, indicate that we either cannot select all cases by tuberculin, or that we must use a greater quantity. In doing this, we may suffer from creating a fever temperature of 104 or 105, in the absence of tubercles, as we have indications of creating with our smaller quantity up to 103.5.

There is still small hope that, by increasing the dose, we may be able to select all tuberculous animals. If so, we shall avoid the tedious and irksome method of quarantine of the remnants of tuberculous herds until the lapse of time will have permitted sufficient advancement of disease so that we may detect it by re-examination.

The positive temperatures, 104.4, 105.4, 107.6 and 106.2, indicate that we can pick out tuberculous cows when this temperature, especially of 104 and 105, is uninfluenced by periods of gestation.

Herd of C. B. Hawver. Milford, December 9, 1893.

(1) Variety, Jersey. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	99.7
Injection:	
9 a. m.	101.8
11 a. m.	106.0
12.30 p. m.	106.2

Post. mediastinal lymphatic glands, with hard, yellow, cheesy areas. Cardiac, with one-inch mass, yellow, cheesy. Other thoracic, enlarged, and cheesy.

Uterus, with foetus, female, 6 weeks to 2 months.

Diagnosis.—Recent case of tuberculosis.

(2) Variety, ———. Age, 2 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.6
Injection:	
9 a. m.	104.2
11 a. m.	106.4

Post mediastinal glands, three or four with pusiform contents. Cardiac, left bronchial, with pusiform contents, English walnut size. Intestinal, with one millet seed, cheesy tubercle. Uterus, with male foetus, four or five months.

Diagnosis.— ———.

(3) Variety, Ayrshire. Age, 5 years. Sex, female.

Condition, thin.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	100.2
Injection:	
9 a. m.	104.8
11 a. m.	105.6

Left bronchial, with small, calcareous, sandy masses. Uterus, with foetus, female, of 3 to 4 months.

Diagnosis.— Tuberculosis; incipient.

(4) Variety, ———. Age, 6 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	100.8
Injection:	
9 a. m.	103.0
11 a. m.	103.0
12.30 p. m.	103.8

Uterus, no foetus.
No lesions reported. No diagnosis.

(5) Variety, Jersey. Age, 11 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.2
Injection:	
9 a. m.	103.6
11 a. m.	105.4

Post. mediastinal lymphatics, large, three by two by one inches, cheesy, calcareous. Cardiac, with one-inch cheesy, calcareous mass. Other thoracic, right bronchial one-inch mass, others enlarged. Intestinal, with cheesy, nut-size masses. Principle lobe of right lung, with one small nut-size agglomeration of shot-size, cheesy tubercles. Uterus, with male foetus, 3 to 4 months.
Diagnosis.— Tuberculosis.

(6) Variety, ———. Age, 6 years. Sex, female.
Condition, medium.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.7
Injection:	
9 a. m.	103.8
11 a. m.	105.2

Cardiac, with two or three shot-size tumors. Intestinal, with one small cheesy nodule. Uterus, with female foetus, 6 months.
Diagnosis.— Tuberculosis.

(7) Variety, ———. Age, 6 years. Sex, female.
Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.8
Injection:	
9 a. m.	106.0
11 a. m.	105.4

Post. mediastinal thickened, three by one by one, with necrotic tissue, intermingling with glandular parenchyma, two or three involved. Principal lobe of right lung, with hen's-egg-size pusiform abscess. Uterus, with male foetus, 4 or 5 months.

Diagnosis.— Tuberculosis.

(8) Variety, ———. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.1
Injection:	
9 a. m.	106.0
11 a. m.	106.0

Post. mediastinal, somewhat enlarged, cheesy contents, breaking down. Cardiac, English walnut-size, other glands enlarged. All with more or less cheesy contents. Hepatic, with caseous contents. Intestinal, English walnut-size, with caseous and limy contents. Principal lobe of right lung, with two or three nut-size, cheesy nodes and four or five in lobe of left lung. Uterus, with male foetus, 6 months.

Diagnosis.— Tuberculosis.

(9) Variety, ———. Age, 2 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.6
Injection:	
9 a. m.	102.2
11 a. m.	103.3
12.30 p. m.	102.6

Post. mediastinal, with pin-point necrosis, yellow and cheesy. One gland cut with a gritty feeling, but with no visible evidence of lesion.

Diagnosis.— Not tuberculosis.

(10) Variety, ———. Age, 3 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.6
Injection:	———
9 a. m.	107.2
11 a. m.	107.4

Post. mediastinal, with agglomerated, shot-size tubercles. Cardiac, with few shot-size, cheesy tubercles. Intestinal, with scattered, nut-size tubercles. Other abdominal, one large lymph. gland, one inch, with cheesy, hard mass. Omentum, with neoplasms.

Uterus, no foetus.

Diagnosis.— Tuberculosis. Food infection.

(11) Variety, ———. Age, 12 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	100.6
Injection:	———
9 a. m.	104.6
11 a. m.	106.2

Retro-pharyngeal, pigeon-egg size, with scattered, shot-size, cheesy tubercle. Post. mediastinal, with scattered, shot-like, cheesy tubercles. Cardiac, like mediastinal. Lungs attached on both sides, scattered tubercles on lung and on wall not numerous. Diaphragmatic, with scattered tubercles. Omentum, with few small tubercles,

and many neoplasms. Both lungs, attached. Two hand-size areas, with abscesses; other smaller masses; one in anterior lobe of right and one in principal lobe of left.

Uterus, with foetus, male, 3 to 4 months.

Diagnosis.— Tuberculosis.

(12) Variety, ———. Age, 5 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.1
Injection:	
9 a. m.	105.6
11 a. m.	106.0

Post. mediastinal, and cardiac, with few shot-size, caseous tubercles. Mesenteries, one pea-size nodule, cheesy.

Uterus, with foetus, female, 4 weeks.

Diagnosis.— Tuberculosis.

(13) Variety, ———. Age, 3 years. Sex, female.

Condition, medium.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.6
Injection:	
9 a. m.	106.4
11 a. m.	107.0

Post. mediastinal, egg size, cheesy contents. All with parenchyma and necrotic substance intermingled. Cardiac, egg size. Right bronchial, filbert size. Principal lobe of right lung, with pea-size nodule on dorsum.

Uterus, foetus, female, 3 to 4 months.

Diagnosis.— Tuberculosis.

(14) Variety, ———. Age, 1 year. Sex, male.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Injection:	———
Morning	105.4
do	106.4

Diagnosis.—Believed to be tuberculous.

(15) Variety, ———. Age, 1 year, past. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
Evening	100.8
Injection:	———
Morning	107.6
do	106.7

Post. mediastinal, with few scattered, limy and granular masses. Intestinal, three, with horse-chestnut-size, limy masses; others, affected; also limy, granular contents.
Diagnosis.—Tuberculosis.

(16) Variety, ———. Age, 1 year. Sex, female.
Condition, ———.
Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.1
Injection:	———
9 a. m.	102.6
11 a. m.	102.5
12.30 a. m.	102.7
3 a. m.	103.1

Uterus, no foetus.
Diagnosis. ———.

Remarks.— On November 27, 1893, after the inspection of the herd, the inspector wrote: "One cow slaughtered recently had been found to have warts in the abdomen and an abscess in the shoulder. Another cow on place has had difficulty in breathing for four years or since purchased. All seem poor, but the pasture is said to have been partially barren. An attempt had been made to fatten four of the animals on grain, but they make no gain in flesh.

On auscultation I could find but two animals, one positively affected, one suspicious, with apparently enlarged mediastinal glands.

The requested tuberculin test gave reactions in a surprising manner. Either the herd is rotten or the increase of 1-20 of a c. c. given these cattle is sufficient to account for the differences noted, or some unexpected thing has happened in our test. The amount given each was 3-10 of a c. c. To the yearlings I gave 4-5 the amount, and to the calves 1-2.

If the Koch's tuberculin used has been perfect, and if no other yet unknown factor has entered into the test at least 15 head are tuberculous.

After the post-mortems, the inspector writes: Although in poor condition, there was nothing beyond one cow to lead one to suspect, from physical diagnosis, that these cows were tuberculous. The cows had not been fed milk. Cow No. 11, the worst of the lot, had been on the place four years. I believe this cow to have been the original cause and that most of the disease is comparatively recent.

It will be noticed that the temperatures of the majority of these is 105 or above. Whether the stronger reaction is due to the size of the dose given O. 3 c. c., I cannot say. The reactions are, however, more satisfactory than any tried lately. Those, apparently, not diseased, are No. 4 (103.8), no foetus; No. 16 (103.1), no foetus; No. 9 (103.3), no foetus is doubtful; No. 14 (106.4) presented no necroses. I cannot say, however, in the face of the very high temperature, that he was not tuberculous. I believe he was.

Summary.— Twelve tuberculous, two doubtful, and two not.

There is no positive indication in this herd that all the tuberculous would not have been selected with a temperature of 105 degrees and over. There could have been then but one showing symptoms by temperature, which showed none on post-mortem.

Herd of Sutliff & Cox. Cherry Valley, March 29, 1894.
(1) Variety, Jersey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	105.6
do	106.0
do	106.0
do	105.4
do	105.4

Post. mediastinal and ant. mediastinal lymphatics, with numerous calcareous and cheesy deposits. Cardiac and other thoracic, calcareous and cheesy. One small area on post. lobe of left lung.
Uterus, with male foetus, 8 months.
Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, 1 year. Sex, female.
Condition, good.
Post. mediastinal and cardiac lymphatic glands, enlarged, and calcareous.
Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 2 years. Sex, female.
Condition, good.
Post. mediastinal, lymphatics, calcareous.
Uterus, with foetus, male, 6 months.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	104.0
do	104.4
do	102.4
do	102.4

Diagnosis.— Tuberculosis.

Herd of Miles Sperry. Schenevus, November 16, 1893.

Variety, Jersey. Age, 6 years. Sex, female.

Condition, emaciated.

No tuberculin test. Condemned on physical diagnosis.

Retro-pharyngeal, left, fist size, with abscess. Left pregenal, with chestnut-size tubercles. Inguinal, normal. Post. mediastinal, anterior mediastinal, cardiac and other thoracic lymphatic glands, all exceedingly large. Some fist size, very hard. Only the largest, with cavities. Hepatic, egg size. Intestinal, with many nut-size tubercles, scattered throughout. Right and left pulmonary, serous membranes, with scattered miliary masses. R. and L. costal, like pulmonary. Diaphragmatic, thoracic side, with one large, six by six by three adherent mass of tubercles. Omentum, with few incipient neoplastic tags. Aorta, with calcified walls, which were like paper and cracked on squeezing. Right lung, with orange-size abscess, soft, and with other smaller nodules. Left lung, anterior lobe, entirely solidified, and fist-size abscess. Liver, with scattering, pea-size nodes. Spleen, with neoplasms. Kidneys, very pale. Uterus, no foetus.

Diagnosis.— Tuberculosis, advanced.

Remarks.— In reference to this cow, the inspector writes: "On my first visit to examine the Isaac Becker herd, I found this cow there tuberculous. She was sold to Doolittle, of Schenevus, from whom Miles Sperry bought her. In the examination, no tuberculin was tried. Physical inspection revealed

pleuritic rubbings, lung trouble, and an enlarged superficial, pregenal gland.

The post-mortem was performed in the presence of the health officer of Schenevus, and showed the lesions in advanced stage.

There are two points of interest in this case: The carelessness of owners trading in diseased cows in defiance of law; second, the probability of the existence of tuberculosis in the herd from which Becker purchased her (the Brownell herd).

When I found this cow, she was in the stable used by other cows and was kept there with the intention of doctoring her up. The issue shows this to be a questionable proceeding.

Further particulars of this cow: Bought in the spring, of Clarence Brownell, by Mr. Becker. Mr. Becker traded her with Doolittle, a neighboring horse dealer, for a watch. Doolittle sold her to Miles Sperry for five dollars.

QUEENS COUNTY.

Herd of C. G. Peters. East Williston, October 21, 1893.

Variety, Jersey. Age, 2 years. Sex, female.

Condition, ———.

No tuberculin test given.

Posterior mediastinal gland, affected. One small, gritty cyst in right lung.

Remark.— On September ninth, the animal was tested with tuberculin, and temperature rose to 107 degrees.

Herd of John Wilbig. Newtown, March, 1893.

(Three cows reported as tuberculous by Dr. McLean, but no post-mortems given.)

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	104.0
do	104.4
do	102.4
do	102.4

Diagnosis.— Tuberculosis.

Herd of Miles Sperry. Schenevus, November 16, 1893.

Variety, Jersey. Age, 6 years. Sex, female.

Condition, emaciated.

No tuberculin test. Condemned on physical diagnosis.

Retro-pharyngeal, left, fist size, with abscess. Left pregenal, with chestnut-size tubercles. Inguinal, normal. Post. mediastinal, anterior mediastinal, cardiac and other thoracic lymphatic glands, all exceedingly large. Some fist size, very hard. Only the largest, with cavities. Hepatic, egg size. Intestinal, with many nut-size tubercles, scattered throughout. Right and left pulmonary, serous membranes, with scattered miliary masses. R. and L. costal, like pulmonary. Diaphragmatic, thoracic side, with one large, six by six by three adherent mass of tubercles. Omentum, with few incipient neoplastic tags. Aorta, with calcified walls, which were like paper and cracked on squeezing. Right lung, with orange-size abscess, soft, and with other smaller nodules. Left lung, anterior lobe, entirely solidified, and fist-size abscess. Liver, with scattering, pea-size nodes. Spleen, with neoplasms. Kidneys, very pale. Uterus, no foetus.

Diagnosis.— Tuberculosis, advanced.

Remarks.— In reference to this cow, the inspector writes: On my first visit to examine the Isaac Becker herd, I found this cow there tuberculous. She was sold to Doolittle, of Schenevus, from whom Miles Sperry bought her. In the examination, no tuberculin was tried. Physical inspection revealed

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, gray foci. Post. mediastinal, anterior mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Neoplastic growths on R. and L. pulmonaries, on pericardium, on R. and L. costal, on mesenteries and omentum. Numerous calcareous masses on right lung, calcareous deposits on left lung. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with female foetus, 7 months.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	101.4
Injection:	
5.30 a. m.	105.0
8 a. m.	104.0
10 a. m.	104.8

Retro-pharyngeal and inguinal lymphatic glands, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess, cavities in right and left lungs. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with foetus, female, 9 months.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, 7 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	106.4
do	107.0
do	107.0

RENSSELAER COUNTY.

Herd of Shepard Tappan. Berlin, November 25, 1893.

(1) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	101.4
Injection:	
5.30 a. m.	104.0
8 a. m.	105.5
10 a. m.	105.0

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, gray foci. Post. mediastinal, eight by four, with calcareous deposits. Anterior mediastinal, cardiac, and other thoracic, lymphatic glands very large, with calcareous deposits. Hepatic and intestinal, with calcareous deposits. Neoplastic growths on R. and L. pulmonaries, pericardium, L. and R. costal, on diaphragmatic, thoracic and abdominal sides, on mesenteries and omentum. Right lung, with large abscess cavity, other small, calcareous deposits. Left lung, with two very large abscess deposits, and other numerous calcareous deposits. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with female foetus, 10 months.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	102.0
Injection:	
5.30 a. m.	104.0
8 a. m.	105.0
10 a. m.	105.0

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, gray foci. Post. mediastinal, anterior mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Neoplastic growths on R. and L. pulmonaries, on pericardium, on R. and L. costal, on mesenteries and omentum. Numerous calcareous masses on right lung, calcareous deposits on left lung. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with female foetus, 7 months.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	101.4
Injection:	
5.30 a. m.	105.0
8 a. m.	104.0
10 a. m.	104.8

Retro-pharyngeal and inguinal lymphatic glands, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess, cavities in right and left lungs. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with foetus, female, 9 months.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, 7 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	106.4
do	107.0
do	107.0

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, gray foci. Post. and ant. mediastinal. Cardiac, other thoracic hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lung, abscess cavities and calcareous deposits. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with male foetus, 8 months.

Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	100.0
Injection:	
5.30 a. m.	102.5
8 a. m.	105.0
10 a. m.	106.4

Retro-pharyngeal, prescapular and inguinal, enlarged, gray foci. Post. and ant. mediastinal, cardiac and other thoracic, very large, and calcareous deposits. Hepatic and intestinal, with calcareous deposits. Neoplastic growths on pericardium and mesenteries. Very large abscess cavity on right lung. Two or three abscess cavities and calcareous deposits on left lung. Liver, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(6) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.
Injection:	
Morning	105—
do	106—
do	107—

Retro-pharyngeal, prescapular and inguinal, enlarged, gray foci. Post. and ant. mediastinal and cardiac, hepatic and intestinal, with calcareous deposits. Neoplastic growths on pericardium, mesenteries and omentum. Abscess cavity on each lung. Spleen, with neoplastic growths. Mammae, tuberculous, udder, half gone.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	105.0
do	104.0
do	104.8

Retro-pharyngeal and inguinal lymphatic glands enlarged, gray foci. Post. and ant. mediastinal, and cardiac, with calcareous deposits. Neoplastic growths on pericardium, mesenteries and omentum. Abscess cavity in right and left lung. Liver, with calcareous deposits. Spleen, with neoplastic growths. Uterus, with female foetus, 9 months.

Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	105.5
do	105.4
do	105.8

Retro-pharyngeal and prescapular, with gray foci. Inguinal, enlarged, with gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal lymphatic glands, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess cavity in right lung. Numerous calcareous deposits on left lung. Liver, with calcareous deposits. Spleen, with neoplastic growths. Mammae, with one-fourth udder gone.

Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, 7 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	101.4
do	102.6
do	104.2
Afternoon	104.6

Retro-pharyngeal, prescapular and inguinal, enlarged, and gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(10) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	105.5
do	105.8
do	105.8

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, with gray foci. Post. mediastinal, ant. mediastinal, cardiac, intestinal and hepatic, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess cavity in right and left lungs, also calcareous deposits. Liver, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.8
Injection:	
Morning	104.0
do	105.4
do	104.8
Afternoon	104.0

Retro-pharyngeal, prescapular and inguinal lymphatic glands, enlarged, and with gray foci. Post. and ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	104.6
do	105.8
do	105.2

Retro-pharyngeal, prescapular and inguinal lymphatics, enlarged, gray foci. Post. and ant. mediastinal, and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(13) Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	103.8
do	104.8
do	106.0

Retro-pharyngeal, prescapular, inguinal, enlarged, and gray foci. Post. and ant. mediastinal, cardiac, hepatic and intestinal, calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(14) Variety, Jersey. Age, 7 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	101.4
do	102.2
do	102.2
Afternoon	103.0
do	102.0

Retro-pharyngeal, calcareous deposits. Inguinal, enlarged, and gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths. Mammae, tuberculous.

Diagnosis.— Tuberculosis.

(15) Variety, Jersey. Age, 1 year. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	103.2
do	102.8
do	103.0
Afternoon	103.0
do	102.8

Retro-pharyngeal, prescapular and inguinal lymphatics, enlarged, and gray foci. Post. and ant. mediastinal, calcareous, with gray foci. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(16) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	104.2
do	106.8
do	104.4
Afternoon	104.6

Retro-pharyngeal and prescapular lymphatics, with gray foci. Inguinal, enlarged, with gray foci. Post. and ant. mediastinal, cardiac and intestinal lymphatic glands, also hepatic, with calcareous deposits. The pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with abscess cavity and calcareous deposits. Liver, with calcareous deposits. Neoplastic growths on spleen.

Diagnosis.— Tuberculosis.

(17) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	103.6
do	105.8
do	106.6

Retro-pharyngeal, prescapular and inguinal lymphatics, enlarged, gray foci. Post. and ant. mediastinal and cardiac, calcareous, gray foci. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(18) Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	102.8
do	105.0
do	106.2

Retro-pharyngeal, enlarged, gray foci. Prescapular, with gray foci. Inguinal, enlarged, gray foci. Post. and ant. mediastinal and cardiac, with calcareous deposits. Intestinal and other abdominal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, abscess cavity. Left lung, with calcareous deposits. Liver, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(19) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.4
do	103.8
do	104.0
Afternoon	104.4

Retro-pharyngeal, prescapular and inguinal, enlarged, and gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal lymphatics, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(20) Variety, Jersey. Age, 8 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	104.8
do	106.0
do	106.0

Retro-pharyngeal, enlarged, gray foci. Prescapular, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, with abscess cavity and calcareous deposits. Left lung, calcareous deposits. Liver, calcareous deposits. Spleen, neoplastic growths.

Diagnosis.— Tuberculosis.

(21) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	
Morning	106.6
do	105.2
do	105.0

Retro-pharyngeal lymphatics, with calcareous deposits. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal, hepatic, cardiac and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, abscess cavity. Left lung, calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(22) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	104.4
do	105.8
do	106.2

Retro-pharyngeal and prescapular lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. and ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(23) Variety, Jersey. Age, 12 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.8
do	104.8
do	104.0
Afternoon	105.2

Retro-pharyngeal lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(24) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	106.0
do	106.6
do	106.0

Retro-pharyngeal, prescapular and inguinal lymphatics, enlarged, gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, abscess cavity. Left lung, calcareous deposits. Liver, calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(25) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	104.0
do	105.6
do	104.4

Retro-pharyngeal, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(26) Variety, Jersey. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.8
Morning	104.2
do	104.8
do	105.8

Retro-pharyngeal, enlarged, gray foci. Prescapular, gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Pericardium,

mesenteries and omentum, with neoplastic growths. Right lung and left lung with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(27) Variety, Jersey. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	101.2
do	102.0
do	103.6
Afternoon	102.8
do	101.4

Retro-pharyngeal lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(28) Variety, Jersey. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	101.4
do	102.5
do	103.6
Afternoon	103.8
do	103.0

Retro-pharyngeal lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, calcareous deposits. Hepatic, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(29) Variety, Jersey. Age, 1 year. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	105.0
do	105.0
do	105.2

Retro-pharyngeal and inguinal lymphatics, with gray foci. Post. mediastinal, with calcareous deposits. Hepatic and intestinal, with gray deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(30) Variety, Jersey. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	103.8
do	105.2
do	105.0

Retro-pharyngeal, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries

and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Liver, with calcareous deposits. Spleen, with neoplastic growths.

(31) Variety, Jersey. Age, 2 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	104.0
Injection:	
Morning	106.8
do	105.4
do	105.4

Retro-pharyngeal, gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths. Liver, with calcareous deposits.

Diagnosis.—Tuberculosis.

(32) Variety, Jersey. Age, 2 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	103.0
do	104.8
do	105.0

Retro-pharyngeal and prescapular lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess cavity and calcareous deposits in both right and left

lungs. Liver, with calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(33) Variety, Jersey. Age, 2 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	—— -
Morning	101.6
do	103.0
do	103.4
Afternoon	103.0
do	102.6

Retro-pharyngeal lymphatics, gray foci. Inguinal, enlarged. gray foci. Post. mediastinal, ant. mediastinal, and cardiac, calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right and left lungs, with calcareous deposits. Spleen, with neoplastic growths. Mammae, udder gone.

Diagnosis.— Tuberculosis.

Herd of W. H. Tappan. Brunswick, December 8, 1893.

(1) Variety, Jersey. Age, 8 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
10 p. m	101.2
Injection:	——
5 a. m	101.8
7 a. m	102.5
9 a. m	103.0
10 a. m	103.0
11 a. m	103.0

Post. mediastinal lymphatics, three by four by two inches, calcareous and cheesy. Cardiac, orange size, calcareous and

cheesy. Hepatic, calcareous and cheesy. Intestinal, nut size, calcareous deposit. Lung, right, principal lobe, one mass of calcareous deposit, cheesy. Left lung, with scattered, calcareous and cheesy nodules.

Uterus, with foetus, male, 6 months.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Sex, female. Age, 6 years.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	———
Morning	101.4
do	102.0
do	102.4
do	102.4
do	103.2

Post. and ant. mediastinal, cardiac and hepatic lymphatics, calcareous and cheesy. Principal lobe of right lung, with three-inch area; middle lobe, with small area. Left lung, with orange-size area.

Uterus, with foetus, male, 2 months.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	———
Morning	104.0
do	105.8

Retro-pharyngeal, calcareous and cheesy, enlarged. Prescapular, pregnal and inguinal, enlarged. Post. mediastinal, seven by four by three inches, calcareous and cheesy. Anterior

mediastinal, very much enlarged, calcified and cheesy. Cardiac, orange size, calcareous and cheesy. Other thoracic, numerous calcareous and cheesy deposits. Hepatic, with few calcareous nodules. Intestinal, very much enlarged and calcified. Right lung, six by six inches, cavity, containing pus. Left lung, with numerous calcareous deposits. Uterus, with foetus, female, one month.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Not injected.

Temperature	102.4

Retro-pharyngeal, very much enlarged and calcified. Inguinal, calcareous. Post. mediastinal, ten by six by six inches, calcareous and cheesy. Ant. mediastinal, calcareous and cheesy. Cardiac, seven by four by four, calcareous and cheesy. Other thoracic, calcareous and cheesy. Intestinal, four inches, with numerous calcareous deposits. Of the serous membranes, the R. and L. pulmonaries, R. and L. costals and diaphragmatic, thoracic side were attached. Mesenteries, with neoplastic growths and tubercular deposits. Only four inches square of right lung left for breathing capacity. Left lung, with numerous very large, pus cavities in all the lobes. Spleen, with neoplastic growths. Uterus, with foetus, male, 3 months.

Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	103.6
do	106.0
do	106.4

Post. and ant. mediastinal, cardiac and intestinal lymphatics, calcareous and cheesy. Right lung, with numerous calcareous deposits. Left lung, numerous, calcareous and cheesy deposits.

Diagnosis.— Tuberculosis.

(6) Variety, Jersey. Age, 8 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	101.2
do	102.5
do	103.0
do	103.0
do	103.0

Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal lymphatics, with calcareous and cheesy deposits. Right lung, with numerous, large size, calcareous deposits. Left lung, with numerous, calcareous and cheesy deposits.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	104.4
do	106.4

Post. mediastinal lymphatics, seven by seven by seven inches, calcareous and cheesy. Ant. mediastinal, calcareous and cheesy. Cardiac, eight by eight by eight, calcareous and cheesy. Other thoracic, calcareous and cheesy. Hepatic, few calcareous nodules. Intestinal, calcareous and cheesy. Right lung, anterior

lobe consolidated and calcareous. Left lung, calcareous and cheesy nodules.

Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	100.4
Injection:	
Morning	103.5
do	105.4

Retro-pharyngeal, lymphatic, orange-size, calcareous and cheesy. Post. mediastinal, ten by eight by eight inches, calcareous and cheesy. Cardiac, very large, calcareous deposits. Other thoracic, very large, calcareous deposits. Hepatic, calcareous. Intestinal, large calcareous deposits. Right lung, principal lobe, one mass of calcareous deposit. Left lung, with numerous large pus cavities. Liver, with twelve calcareous deposits. Spleen, with neoplastic growths. Mammae, with three teats.

Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Temperature	102.0

No tuberculin test. Condemned on physical examination.

Retro-pharyngeal and inguinal lymphatics, calcareous and cheesy. Post. mediastinal, fourteen by four inches, calcareous. Ant. mediastinal, very large and calcareous. Cardiac, lymphatic, muskmelon-size, calcareous deposit. Other thoracic and hepatic, calcareous and cheesy. Intestinal, very large, calcareous and cheesy. Other abdominal, calcareous and cheesy. Serous membranes, R. and L. pulmonaries, and R. and L. costals, attached. Mesenteries, with neoplastic growths, tuberculous. Right lung, with numerous orange-size pus cavities. Left lung,

post. lobe, one mass of calcareous deposits. Liver, with three calcareous deposits. Spleen, calcareous deposits.

Uterus, with foetus, female, 4 months.

Diagnosis.— Tuberculosis.

(10) Variety, Jersey. Age, 9 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	99.4
Injection:	— — -
Morning	105.5
do	107.0

Retro-pharyngeal, prescapular and inguinal lymphatics, calcareous. Post. mediastinal, ten by six by five inches, calcareous. Ant. mediastinal, calcareous. Cardiac, very large, calcareous and cheesy. Hepatic, calcareous. Right and left lungs, with very many large areas.

Uterus, with male foetus, 7 months.

Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	———
Morning	101.6
do	102.4
do	103.0
do	103.8
do	105.0

Retro-pharyngeal and post. mediastinal lymphatics, calcareous and cheesy. Cardiac, hepatic and intestinal, calcareous. Right lung, with seven small areas. Left lung, with numerous areas, three inches in diameter.

Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, 5 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	100.8
Injection:	
Morning	101.4
do	102.4
do	102.8
do	103.2
do	103.0

Post. mediastinal, lymphatic, large, calcareous deposit. Cardiac and intestinal, calcareous. Right lung, with orange-size, calcareous mass.
Diagnosis.— Tuberculosis.

(13) Variety, Jersey. Age, 5 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	101.4
do	102.6
do	102.9
do	103.2
do	103.4

Retro-pharyngeal, with calcareous deposits. Post. mediastinal, three by four by four inches, calcareous. Cardiac, other thoracic, and intestinal lymphatics, calcareous. Right lung, principal lobe, with three inches area. Middle lobe, with four inches area. Left lung, with numerous areas.
Uterus, with female foetus, 4 months.
Diagnosis.— Tuberculosis.

(14) Variety, Jersey. Age, 6 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	——
Morning	104.8
do	107.0

Retro-pharyngeal, prescapular and inguinal lymphatics, calcareous. Post. mediastinal, twelve by six by six inches, calcareous. Ant. mediastinal, calcareous. Cardiac, seven by seven by seven inches, calcareous. Hepatic, calcareous. Intestinal, large-size, calcareous deposits. Right lung, with ten calcareous deposits. Left lung, post. lobe, one solid mass.

Diagnosis.— Tuberculosis.

(15) Variety, ———. Age, 3 years. Sex, male.
Condition, poor.
Tuberculin experiment:

Time	Temperature.
Evening	100.8
Injection:	———
Morning	102.6
do	104.6
do	105.8

Retro-pharyngeal, calcareous, orange-size. Prescapular and inguinal, enlarged and calcareous. Pregnal, enlarged. Post. mediastinal, fourteen by seven by seven inches, in diameter, calcareous. Ant. mediastinal, calcareous. Cardiac, ten by ten, calcareous and cheesy. Other thoracic, numerous, calcareous and cheesy. Hepatic, calcareous. Intestinal, large calcareous and cheesy. Mesenteries, with neoplastic growths, tuberculous. Right and left lungs, with orange-size pus cavities in all lobes. Liver, with eight calcareous deposits. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(16) Variety, Jersey. Age, 13 years. Sex, female.

Condition, poor.

Big lump on neck, which contained two quarts of serous fluid.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	102.5
do	105.5
do	106.2

Retro-pharyngeal and inguinal, calcareous and cheesy. Post. mediastinal, ten by twelve by twelve inches, with calcareous deposits. Cardiac, very large, with calcareous deposits. Hepatic and intestinal, with calcareous deposits. Mesenteries, with neoplastic growths, tuberculous. Right lung, with very many large areas, calcareous. Left lung, post lobe solid, calcareous. Liver, calcareous deposits. Spleen, calcareous and neoplastic.

Diagnosis.— Tuberculosis.

(17) Variety, Jersey. Age, 10 years. Sex, female.

Condition, fair.

Condemned, on physical examination.

Tuberculin experiment:

Time.	Temperature.
Evening	100 .4
Injection:	
Morning	100 .8
do	101 .8
do	101 .8
do	101 .6
do	101 .2

Post. mediastinal, calcareous deposit. Intestinal, with three calcareous deposits. Uterus, with foetus, female, 4 months.

Diagnosis.— Tuberculosis.

(18) Variety, Grade Jersey. Age, 10 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	101.0
do	103.6
do	104.4
do	105.4

Post. mediastinal, calcareous and cheesy. Ant. mediastinal, calcareous. Cardiac, hepatic and intestinal, calcareous and cheesy. Mesenteries, with neoplastic growths, tuberculous. Right lung, principal lobe, consolidated and calcareous. Left lung, numerous calcareous deposits. Mammae, with three teats.
Diagnosis.— Tuberculosis.

(19) Variety, Jersey. Age, 3 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.2
do	104.0
do	105.0
do	105.8

Post. mediastinal, cardiac and intestinal lymphatics, with calcareous deposits. Right lung, one nut-size, area, calcareous. Uterus, with female foetus, 4 months.
Diagnosis.— Tuberculosis.

(20) Variety, ———. Age, 5 1-2 years. Sex, female.
Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	101.6
do	102.6
do	102.8
do	102.8
do	103.0

Post. mediastinal, ant. mediastinal, cardiac and intestinal lymphatics, with calcareous deposit. Right lung, with nut-size area. Left lung, principal lobe, with three-inch area. Middle lobe, with two-inch area.

Diagnosis.— Tuberculosis.

(34) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	102.6
do	104.0
do	105.0

Post. mediastinal and cardiac lymphatics, calcareous. Right and left lungs, with calcareous deposits.

Diagnosis.— Tuberculosis.

(35) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	101.8
do	102.0
do	104.2

Post. mediastinal and cardiac lymphatics, calcareous. Right lung, with calcareous deposit.

Diagnosis.— Tuberculosis.

(36) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.0
do	102.0
do	102.2
do	103.0

Post. mediastinal and cardiac lymphatics, calcareous.

Diagnosis.— Tuberculosis.

(37) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	102.0
do	103.0
do	103.0
do	104.0

Post. mediastinal and cardiac lymphatics, calcareous. Left lung, with a small area, calcareous.

Diagnosis.— Tuberculosis.

(38) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	101.4
do	102.0
do	102.4
do	103.4

Post. mediastinal and cardiac lymphatics, calcareous.

Diagnosis.— Tuberculosis.

(39) Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	99.8
Injection:	
Morning	101.4
do	102.4
do	102.0
do	104.0

Post. mediastinal and cardiac lymphatics, calcareous. Right lung, small, one-inch area.

Diagnosis.— Tuberculosis.

(40) Variety, Jersey. Age, 5 years. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Evening	100.2
Injection:	
Morning	100.8
do	102.4
do	104.0
do	104.8
do	104.4

Retro-pharyngeal, enlarged, one, with calcareous and purulent, other, calcareous and cheesy. Prescapular, pregenal and inguinal lymphatics, enlarged. Post. mediastinal and cardiac, very much enlarged. Fringe on border of lung.

Diagnosis.— Tuberculosis.

Herd of A. S. Hoyt. Valley Falls, January 24, 1894.

(1) Variety, Jersey, not Reg. Age (calf). Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	—— –
Morning	102.0
do	105.0
do	104.8
do	104.2
do	105.0

Post. mediastinal, ant. mediastinal and cardiac lymphatics, calcareous deposits.

Diagnosis.— Tuberculosis.

(2) Variety, ———. Age, 5 years. Sex, female.

Condition, fat.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	———
Morning	101.6
do	103.4
do	104.0
do	104.6
do	105.0

Retro-pharyngeal, enlarged, hyperplasia. Post. mediastinal, ant. mediastinal and cardiac, enlarged. Prescapular, pregenal

and inguinal, hyperplasia. Mesenteries, with neoplastic growths.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey, not Reg. Age, 4 years. Sex, female. Condition, poor.

Tuberculin experiment:

Time.	Temperature
Evening	102.8
Injection:	
Morning	102.0
do	106.0
do	105.4
do	105.6
do	104.8

Retro-pharyngeal, enlarged, calcareous deposits. Prescapular, calcareous deposits. Post. mediastinal, ten by six by six, calcareous and cheesy. Ant. mediastinal, four by four by four, calcareous and cheesy. Cardiac, other thoracic and intestinal lymphatic glands, calcareous and cheesy. Right lung, principal lobe, consolidated. Small nodules, through post. lobe, calcareous and cheesy. Left lung, numerous orange-size, calcareous and cheesy masses. Liver, calcareous and cheesy. Mammae, tuberculous.

Diagnosis.— Tuberculosis.

Herd of R. Moon. Berlin, March 27, 1894.

Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection	102.4
Morning	103.4
do	103.8
Afternoon	104.4
do	104.0
do	103.4
do	103.0

Post. mediastinal lymphatics, seven by five by three, calcareous and cheesy. Ant. mediastinal, four by four by four, calcareous and cheesy. Other thoracic, enlarged, calcareous and cheesy. Intestinal, calcareous and cheesy. Mesenteries, neoplastic growths. Right lung, with one-inch foci, scattered through all lobes. Left lung, with numerous calcareous deposits.

Uterus, with female foetus, 8 months.

Diagnosis.— Tuberculosis.

SARATOGA COUNTY.

Herd of Jno. and Jos. Shurter. Gansevoort, November 22, 1893.

(1) Variety, Grade Jersey. Age, 10 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
7.15 p. m.	101.8
Injection:	
7.15 a. m.	102.0
9.15 a. m.	102.6
10.30 a. m.	103.4
12 m.	103.6
1.30 p. m.	103.8

Retro-pharyngeal, gray foci. Inguinal, enlarged, gray foci. Post. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Liver, with neoplastic growths. Uterus, with male foetus, 8 months.

Diagnosis.— Tuberculosis.

(2) Variety, Grade Jersey. Age, 8 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.5
Injection:	
Morning	102.2
do	103.0
do	103.2
do	103.0
do	102.8

Retro-pharyngeal and inguinal lymphatic glands, gray foci. Post. mediastinal, calcareous deposit. Intestinal and other abdominal lymphatic glands, gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths. Uterus, with male foetus, 8 months.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 1 1-2 years. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
7 p. m.	101.9
Injection:	
6 a. m.	103.6
8 a. m.	104.0
9.30 a. m.	103.3
10.30 a. m.	103.3
11.30 a. m.	103.0
2 p. m.	102.6

Retro-pharyngeal lymphatics, gray foci. Post. mediastinal, calcareous deposits. Hepatic and intestinal, gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Liver, with neoplastic growths.

Diagnosis.— Incipient tuberculosis.

Herd of E. H. King. Wilton, October 23, 1893.

(1) Variety, Jersey. Age, 7 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	102.0
Injection:	
6.30 a. m.	102.6
8 a. m.	103.0
9.30 a. m.	103.4
11.30 a. m.	103.8
1.30 p. m.	104.0

Retro-pharyngeal lymphatics, right and left, with gray foci. Inguinal, enlarged, with gray foci. Post. mediastinal, enlarged, with calcareous deposits. Ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with cheesy deposits. Mesenteries and omentum, with neoplastic growths. Uterus, with female foetus. Mammae, normal.

Diagnosis.—Incipient tuberculosis.

(2) Variety, Jersey. Age, 4 years. Sex, female.

Condition, very poor. Could hardly live through the winter.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	103.4
Injection:	
6.30 a. m.	105.0
8 a. m.	105.4
9.30 a. m.	104.2
11.30 a. m.	105.0

Retro-pharyngeal lymphatics, enlarged, with numerous calcareous deposits. Prescapular, gray and cheesy foci. Pregenal, gray foci. Inguinal, enlarged, with cheesy foci. Post. mediastinal, very large, broken down, cheesy deposits. Ant. medias-

tinal, very large, calcareous deposits. Cardiac, same as ant. med. Other thoracic, calcareous deposits. Hepatic, cheesy deposits. Intestinal, very much enlarged, with calcareous deposits. R. and L. pulmonaries, attached. Pericardium, with neoplastic growths. R. and L. costals, covered with numerous growths. Diaphragmatic, thoracic and abdominal sides, covered with numerous growths. Mesenteries and omentum, with neoplastic growths. Right lung, with one very large abscess cavity, broken down, and other smaller, calcareous deposits. Left lung, with numerous calcareous deposits, with one cheesy mass, broken down. Liver, with six or seven calcareous deposits. Spleen, normal. Kidneys, normal. Uterus, with calcareous deposits. No foetus. Dried off:

Diagnosis.—Advanced generalized tuberculosis.

(3) Variety, Ayrshire. Age, 8 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	101. 5
Injection:	
6.30 a. m.	105. 5
	106. 8
	107. 4
	105. 4

Retro-pharyngeal lymphatics, with calcareous deposits. Prescapular and pregenal, with gray foci. Inguinal, enlarged, with gray foci. Post. and ant. mediastinal, with calcareous deposits, also on cardiac. Other thoracic, one or two, with calcareous deposits. Hepatic, calcareous. Intestinal, three or four calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, with one small, cheesy focus. Left lung, one large, cheesy focus, broken down, and three calcareous masses. Spleen, with neoplastic growths. Kidneys and uterus, normal. Uterus, with foetus, female.

Diagnosis.—Tuberculosis.

(4) Variety, Grade Jersey. Age, 4 years. Sex, female.

Condition, very poor. Had to be carried in the field in order to be killed. Very much exhausted.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	103.6
Injection:	
6.30 a. m.	104.6
8 a. m.	105.6
9.30 a. m.	104.5
11.30 a. m.	105.0

Retro-pharyngeal, enlarged, cheesy deposits. Broken down. Prescapular, with gray foci, and calcareous deposits. Pregenal, with gray foci. Inguinal, with calcareous and cheesy deposits. Post. mediastinal, twelve by six, cheesy, and broken down. Ant. mediastinal, very large, cheesy and broken down. Cardiac, cheesy and calcareous. Other thoracic, numerous egg-size, cheesy deposits. Hepatic, very large, calcareous deposits. Intestinal, numerous large, calcareous deposits. Right and left pulmonaries, attached. Pericardium, large, with large, neoplastic growths. R. and L. costals, serous membranes, and diaphragmatic, thoracic and abdominal sides, with numerous scattered foci. Mesenteries and omentum, with neoplastic growths. Right lung, with two large pus cavities, broken down, and numerous small, calcareous deposits. Left lung, with numerous calcareous deposits and cheesy deposits. Liver, with four cheesy foci. Spleen, with neoplastic growths. Uterus, with calcareous deposits. No foetus.

Diagnosis.—Advanced generalized tuberculosis.

(5) Variety, Jersey. Age, 10 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	102.4
Injection:	
6.30 a. m.	106.4
8 a. m.	106.4
9.30 a. m.	105.4
11.30 a. m.	105.6

Retro-pharyngeal lymphatics, with cheesy foci. Prescapular and pregenal, with gray foci. Inguinal, post. and ant. mediastinal and cardiac, enlarged, calcareous deposits, and cheesy. Hepatic and intestinal, with calcareous deposits. Right lung, abscess cavity and few small calcareous deposits. Left lung, with abscess cavity. Liver, spleen, kidneys and uterus, normal. No foetus.

Diagnosis.— Tuberculosis.

(6) Variety, Jersey. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.8
Injection:	
6.30 a. m.	104.0
8 a. m.	104.4
9.30 a. m.	103.8
11.30 a. m.	104.2
1.30 p. m.	103.6

Retro-pharyngeal lymphatics, with gray foci and cheesy deposits. Prescapular and pregenal, with gray foci. Inguinal, enlarged, with gray foci. Post. mediastinal and cardiac, with calcareous deposits. Mesenteries and omentum, with neoplastic growths. Right lung, one calcareous mass. Uterus, with foetus, female.

Diagnosis.— Incipient tuberculosis.

(7) Variety, Jersey. Age, 9 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.8
Injection:	
6.30 a. m.	105.8
8 a. m.	106.8
9.30 a. m.	106.4
11.30 a. m.	106.9

Retro-pharyngeal lymphatics, enlarged, calcareous deposits. Prescapular and pregenal, with gray foci. Inguinal, enlarged, calcareous deposits. Post. and ant. mediastinal, enlarged, with numerous calcareous deposits. Other thoracic, three others, calcareous. Hepatic and intestinal, with calcareous deposits. Mesenteries and omentum, with neoplastic growths. Right ung, with cheesy focus, broken down, as large as a muskmelon. Left lung, with numerous calcareous deposits. Uterus, with emale foetus.

Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, 9 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
8 a. m.	101.7
Injection:	
6.30 a. m.	105.4
8 a. m.	106.5
9.30 a. m.	107.2
11.30 a. m.	106.8

Retro-pharyngeal lymphatics, cheesy deposits, breaking down. Prescapular, with gray foci. Inguinal, gray foci, and calcareous deposits. Post. mediastinal, ant. mediastinal, cardiac and intestinal, with calcareous deposits. Pericardium, diaphragmatic,

thoracic and abdominal sides, mesenteries and omentum, with neoplastic growths. Right lung, with numerous calcareous deposits. Left lung, with very large abscess cavity. Liver, with cheesy foci. Spleen, with neoplastic growths. Kidneys and uterus, normal. Uterus, with male foetus.

Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, 9 years. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	101.4
Injection:	
6.30 a. m.	102.4
8 a. m.	102.8
9.30 a. m.	103.0
11.30 a. m.	104.0
1.30 p. m.	103.8

Retro-pharyngeal, with calcareous deposits. Prescapular, pregenal and inguinal, with gray foci. Post. mediastinal, with calcareous mass. Ant. mediastinal, cardiac, hepatic and intestinal, with calcareous deposits. Uterus, with female foetus.

Diagnosis.— Incipient tuberculosis.

(10) Variety, Grade Jersey. Age, 3 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature
8 p. m.	102.8
Injection:	
6.30 a. m.	105.4
8 a. m.	106.0
9.30 a. m.	105.4
11.30 a. m.	106.4

Retro-pharyngeal, enlarged, with cheesy foci. Prescapular, with gray and calcareous deposits. Pregenal, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic, calcareous deposits. Intestinal, calcareous and cheesy deposits. Right lung, with three calcareous deposits, breaking down. Left lung, with numerous small calcareous deposits. Liver, spleen, kidneys and uterus, normal. Uterus, no foetus.

Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, 1 year. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	103.2
Injection:	
8 a. m.	105.5
9.30 a. m.	106.0
11.30 a. m.	105.8

Retro-pharyngeal lymphatics, with calcareous deposits. Prescapular, gray foci, hemorrhagic. Inguinal, enlarged, hemorrhagic foci. Post. mediastinal, eight by three, calcareous deposit. Ant. mediastinal, egg-size, calcareous deposits. Cardiac, very much enlarged, and calcified. Other thoracic, two or three, calcified. Hepatic and intestinal, with scattered nodules. Serous membranes. R. and L. pulmonaries, attached. Pericardium, with neoplastic growths. Right and left costals, covered with tubercular masses. Mesenteries and omentum, with neoplastic growths. Right lung, with numerous pea-size tubercles. Left lung, lower lobe, solidified. Calcareous. Upper part broken down with tubercles. Liver, three tubercles. Spleen, with neoplastic growths. Uterus, normal. Uterus, with male foetus.

Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, 1 year. Sex, male.
Condition, fair.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.8
Injection:	
8 a. m.	102.8
9.30 a. m.	103.6
11.30 a. m.	102.0
1 p. m.	103.0
3 p. m.	102.2

Post. mediastinal, enlarged. Few scattered foci, calcareous. Pericardium, mesenteries and omentum, with neoplastic growths.

Diagnosis.—Incipient tuberculosis.

(13) Variety, Jersey. Age, 4 months. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.8
Injection:	
8 a. m.	103.2
9.30 a. m.	102.8
11.30 a. m.	103.4
1 p. m.	103.6
3 p. m.	104.0

Post. mediastinal and ant. mediastinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, with few scattered tubercles.

Diagnosis.—Incipient tuberculosis.

(14) Variety, Jersey. Age, 3 months. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	103.4
Injection:	
8 a. m.	103.0
9.30 a. m.	102.7

Time.	Temperature.
11.30 a. m.	103.6
1 p. m.	103.8
3 p. m.	104.0

Post. mediastinal, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Left lung, one small-size (pea), cheesy mass.

Diagnosis.— Tuberculosis.

Remarks.— The inspector states that Mr. King reports having had one cow die last summer of some wasting disease, and two years ago he lost one in the same way. Post-mortem held on them proved the disease to be tuberculosis.

Herd of E. Metcalf. Gansevoort, November 14, 1893.

(1) Variety, Native. Age, 4 years. Sex, female.

Condition, very poor. A tumor, the size of an egg, on left sup. maxillary.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.8
Injection:	
8 a. m.	104.0
9.30 a. m.	105.4
11.30 a. m.	104.0
1.30 p. m.	104.0
3 p. m.	103.6

Retro-pharyngeal lymphatics, enlarged, with calcareous deposits. Prescapular, with gray foci. Inguinal, with gray foci, hemorrhagic. Post. mediastinal, enlarged, with calcareous deposit. Cardiac, gray foci. Pericardium, R. and L. costals, with neoplastic growths. Mesenteries, deposits and neoplastic growths. Omentum, with neoplastic growths. Spleen, with neoplastic growths. Uterus, with tubercular deposits. Uterus, with female foetus, 6 months.

Diagnosis.— Incipient tuberculosis.

(2) Variety, Grade Jersey. Age, 1 year. Sex, female.
Condition, very poor.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	100.7
Injection:	
8 a. m.	102.6
9.30 a. m.	103.6
11.30 a. m.	105.0
1.30 p. m.	105.0
3 p. m.	104.2

Retro-pharyngeal, lymphatics, prescapular and pregenal, with gray foci. Inguinal, gray foci, hemorrhagic. Post. mediastinal, with calcareous deposits. Pericardium, with neoplastic growths. Mesenteries and omentum, with deposits and neoplastic growths. Spleen, with neoplastic growths. Uterus, with female foetus, 4 months.

Diagnosis.— Incipient tuberculosis.

(3) Variety, Native. Age, 4 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.2
Injection:	
8 a. m.	103.8
9.30 a. m.	105.0
11.30 a. m.	104.8
1.30 p. m.	104.4
3 p. m.	104.4

Retro-pharyngeal and prescapular, with gray foci. Inguinal, gray foci and hemorrhagic foci. Post. mediastinal, with gray foci. Pericardium, with neoplastic growths. Mesenteries, studded with neoplastic growths, shot-size masses. Spleen, with neoplastic growths. Uterus, with female foetus, seven months.

Diagnosis.— Incipient tuberculosis.

(4) Variety, Grade Jersey. Age, 3 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
9 p. m.	101.3
Injection:	
8 a. m.	102.8
9.30 a. m.	103.2
11.30 a. m.	103.6
1.30 p. m.	102.8
3 p. m.	102.6

Retro-pharyngeal, inguinal and post. mediastinal, with gray foci. Right pulmonary, pericardium, R. and L. costals, mesenteries and omentum, with neoplastic growths. Uterus, with male foetus of 4 months.

Diagnosis.— Incipient tuberculosis.

(5) Variety, Native. Age, 6 years. Sex, female.
Condition, poor.
Pus sac near the sinus of hip.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.0
Injection:	
7.30 a. m.	105.6
9.30 a. m.	105.2
11.30 a. m.	105.0
1.30 p. m.	104.4

Retro-pharyngeal, enlarged, with gray foci. Inguinal, very large gray foci. Post. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, with neoplastic growths. Uterus, with male foetus, 8 months.

Diagnosis.— Tuberculosis.

(6) Variety, Native. Age, 6 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
7.30 p. m.	102.8
Injection:	
7.30 a. m.	104.8
9.30 a. m.	105.8
11.30 a. m.	104.8
1.30 p. m.	104.2

Retro-pharyngeal and inguinal, enlarged, with gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with gray foci. Pericardium, mesenteries and omentum, with neoplastic growths. Spleen, neoplastic growths. Uterus, with female foetus, 6 months.
Diagnosis.— Tuberculosis.

Herd of I. V. and H. C. Holmes. Ballston, November 27, 1893.
(1) Variety, Jersey. Age, 8 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.2
Injection:	
Morning	103.0
do	102.8
do	103.2
Afternoon	104.0
do	104.2

Inguinal lymphatics, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Left lung, calcareous growths. Liver, with neoplastic growths. Uterus, with male foetus, 8 months.
Diagnosis.— Incipient tuberculosis.

(2) Variety, Jersey. Age, 3 years. Sex, female.

Condition, poor.

Large sac on right knee.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	103.5
do	104.0
do	105.4
Afternoon	106.2
do	105.8

Retro-pharyngeal, enlarged, gray foci. Inguinal, with gray foci. Post. and ant. mediastinal, cardiac, hepatic and intestinal, with calcareous growths. Pericardium, mesenteries and omentum, with neoplastic growths. Abscess cavity in right lung. Spleen, with neoplastic growths.

Diagnosis.— Incipient tuberculosis.

(3) Variety, Jersey. Age, 2 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	106.0
do	105.4
do	106.0
Afternoon	106.0
do	105.4

Prescapular and pregenal lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal, enlarged, calcareous deposits. Hepatic and intestinal, with calcareous deposits. Pericardium, with neoplastic growths. Right and left costals, with adhesions. Left lung, post. lobe, with large abscess.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
Evening	102.0
Injection:	
Morning	104.0
do	105.4
do	105.4
do	105.6
do	105.4

Retro-pharyngeal lymphatics, enlarged, and with gray foci. Prescapular, with gray foci. Inguinal, enlarged, and with gray foci. Post. mediastinal, with calcareous deposits. Ant. mediastinal and cardiac, with calcareous deposits. Pericardium, with neoplastic growths. Omentum and mesenteries, like pericardium. Spleen, with neoplastic growths. Uterus, with female foetus, 8 months.

Diagnosis.—Incipient tuberculosis.

(5) Variety, Jersey. Age, 4 years. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.
Evening	100.4
Injection:	
Morning	101.0
do	102.0
do	104.4
do	105.0
do	105.4

Retro-pharyngeal lymphatics, with gray foci. Post. and ant. mediastinal, with calcareous deposits. Cardiac, with cheesy deposits. Intestinal, calcareous deposits. Pericardium, with neoplastic growths. Mesenteries, omentum and spleen, with neoplastic growths.

Diagnosis.—Incipient tuberculosis.

(6) Variety, Jersey. Age, 6 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.4
do	104.0
do	104.8
do	105.0
do	104.8

Retro-pharyngeal and prescapular lymphatics, with gray foci. Inguinal, enlarged, gray foci. Post. mediastinal, calcareous deposits. Ant. mediastinal and cardiac, like post. mediastinal. Pericardium, mesenteries, omentum and spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 2 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	102.6
Injection:	
Morning	103.2
do	102.8
do	103.0
do	104.0
do	103.2

Inguinal, enlarged, gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Pericardium, mesenteries, omentum and spleen, with neoplastic growths.

Diagnosis.— Incipient tuberculosis.

(8) Variety, Jersey. Age, 4 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	101.4
Injection:	
Morning	102.6
do	103.0
do	105.4
do	105.4
do	105.4

Retro-pharyngeal lymphatics, with calcareous deposits. Prescapular, with gray foci. Pregenal, with gray foci. Inguinal, enlarged, and with gray foci. Post. mediastinal, ant. mediastinal, cardiac, hepatic and intestinal, enlarged, and with calcareous deposits. Pericardium, mesenteries and omentum, with neoplastic growths. Right lung, with numerous calcareous masses, one abscess cavity. Left lung, with numerous calcareous deposits throughout. Spleen, neoplastic growths.
Diagnosis.— Tuberculosis.

(9) Variety, Jersey. Age, 3 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Evening	102.4
Injection:	
Morning	102.4
do	103.0
do	104.0
do	104.8
do	105.0
do	105.0

Retro-pharyngeal lymphatics, enlarged. Hyperplasia. Post. mediastinal, enlarged. Mesenteries, neoplastic growths, tubercular.
Diagnosis.— This is evidently a case of beginning infective.

(10) Variety, Jersey. Age, 4 years. Sex, female.
Condition, poor.
Post. mediastinal, calcareous, very large. Cardiac, calcareous.
Diagnosis.— Tuberculosis.

(11) Variety, Jersey. Age, 4 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
Evening	100.4
Injection:	
Morning	101.0
do	103.4
do	103.4
do	104.6
do	106.0
do	107.0

Post. mediastinal, enlarged, calcareous, four by four by four. Ant. mediastinal, cardiac and other thoracic, enlarged, and calcareous. Calcareous deposits, about as large as a muskmelon, on right lung. Left lung, with calcareous deposits.
Diagnosis.— Tuberculosis.

(12) Variety, Jersey. Age, 13 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
Evening	101.0
Injection:	
Morning	102.0
do	101.6
do	102.2
do	103.0
do	103.2

Post. mediastinal, one nut-size, calcareous deposit.

SUFFOLK COUNTY.

Herd of Mr. Brown. Fort Salongo, December 12, 1893.

Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin test, not given.

Post-mortem showed numerous tubercles on left lung. Tubercles on spleen and kidneys. Uterus, both horns filled with tubercles. Mammae, very large.

Diagnosis.— Tuberculosis.

Herd of Wm. Kenney. Fort Salongo, December 12, 1893.

Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

No tuberculin experiment.

Retro-pharyngeal, enlarged, and caseous. Left pulmonary, covered with tubercles. Right and left lungs, with numerous tubercles. Tubercles on liver and spleen.

Diagnosis.— Tuberculosis.

Herd of Mr. Holmes. Fort Salongo, December 12, 1893.

Variety, Jersey. Age, ———. Sex, female.

Condition, poor.

Tuberculin experiment, not given.

Retro-pharyngeal, enlarged, and caseous. Post. mediastinal, large and caseous. Right and left lungs, with numerous tubercles. Liver, with tubercles on surface.

Diagnosis.— Tuberculosis.

TIOGA COUNTY.

Herd of Wm. E. Simmons. Jenksville, January 11, 1894.

((1) Variety, Grade Jersey. Age, 8 years. Sex, female.

Condition, poor. Roarer.

Tuberculin experiment:

Time.		Temperature.
9.15 p. m.	101.2	101.6
Injection:	———	———
	U. S. 2 cc.	0.3 K.
8.30 a. m.	103.2	102.8

Time.	Temperature.	
10.45 a. m.	104.2	102.6
1.15 p. m.	105.6	102.0
3.15 p. m.	105.0	103.4

Lymphatics.— Retro-pharyngeal, two, six by four inches; others, smaller. Contents, caseous, purulent. Prescapular, enlarged, reddened. Left, with one infarcation of blood and two others, fibrous centers. Inguinal, enlarged, dark color. Post. mediastinal, a little enlarged, two or three pea-size foci. Cardiac, enlarged, white fibrous foci; one caseous. Intestinal, nut-size foci, caseous. Miliary tubercles along borders of each lung, and purulent abscesses throughout the mass. Uterus, no foetus, apparently healing.

Diagnosis.— Tuberculosis.

(2) Variety, Grade Jersey. Age, 6 years. Sex, female.

Condition, poor. Roarer.

Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	103.4	102.5
Injection: U. S. 2 cc. K. not used.	———	———
8.30 a. m.	105.6	101.2
10.45 a. m.	105.2	99.8
1.15 p. m.	104.0	101.5
3.15 p. m.	104.4	101.6

Lymphatics.— Retro-pharyngeal, multiple abscess and caseous tumor, five to six inches in diameter, for two. Post. mediastinal, two by one and one-half inches, contents purulent. Cardiac, small, with one pea-size tubercle. Old fibrous pleuritic adhesions on left pulmonary, and several old fish roe growths on middle lobe. Diaphragmatic, thoracic side, old fibrous adhesions. Right lung, principal lobe, abscess, five by three inches, purulent. Median, with few nut-size tumors. Left lung, with nut-size, cheesy mass, other masses smaller in princ. lobe and small ones in other lobes. Uterus, with female foetus, 7 to 8 months.

Diagnosis.— ———.

(3) Variety, Native. Age, 8 years. Sex, female.
Condition, fair and lively.
Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	102.5	102.4
Injection: U. S. 2 cc. K. 0.3.		
8.30 a. m.	103.6	104.0
10.45 a. m.	104.0	104.2
1.15 p. m.	105.0	104.0
3.15 p. m.	106.0	104.0

Lymphatics.— Post. mediastinal, very large, eight by three by three inches, contents hard, cheesy; others large. Cardiac, one and one-half inches in diameter, with agglomerated, discrete buck-shot foci. Hepatic, one and one-half inches in diameter, cheesy. Trachea, with exposed tuberculous deposits, the edges rolling over. Tubercles in bronchii. Right lung, principal lobe, with scattering, pea-size, cheesy nodules. Left lung, do. Middle lobe of right, with three inches in diameter tubercles. Left principal lobe, one and a half inches abscess, purulent. Anterior lobes, with tubercles. Liver, with three one-inch mass, near surface. Uterus, with male foetus, 6 months.

Diagnosis.— Tuberculosis.

(4) Variety, Ayrshire. Age, 5 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	104.6	106.5
Injection: U. S. 2 cc. K. 0.3 cc.		
8.30 a. m.	104.8	104.3
10.45 a. m.	104.8	104.6
1.15 p. m.	105.0	104.4
3.15 p. m.	105.6	104.8

Lymphatics.— Retro-pharyngeal, two inches in diameter and studded, with cheesy foci. Prescapular, reddened, enlarged, no foci. Pregenal, very much enlarged. Post. mediastinal, with

few pea-size foci. Mesenteric, one one inch in diameter, center caseous. Omentum, with few neoplasms. Uterus, mucosa studded with tubercles miliary. Mammae, weight fifty-six and one-half pounds, filled with caseous, limy substance, separated by fibrous tissue.

Diagnosis.— Tuberculosis.

(5) Variety, Native. Age, 2 years. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	102.2	102.6
Injection: U. S. 2 cc. K. 0.3 cc.		
8.30 a. m.	102.0	105.6
10.45 a. m.	102.0	105.0
1.15 p. m.	102.6	105.6
3.15 p. m.	103.2	106.2

Lymphatics.— Prescapular, with white fibrous areas. Post. mediastinal, with yellow, cheesy centers, and white, fibrous areas. Cardiac, with yellowish foci, caseous. Left lung, principal lobe, with one pea-size, cheesy focus. Uterus, with female foetus.

Diagnosis.— Tuberculosis.

(6) Variety, Native. Age, 2 years. Sex, female.
Condition, fat.
Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	102.2	102.6
Injection: U. S. 2 cc. K. 0.3 cc.		
8.30 a. m.	105.6	104.0
10.45 a. m.	107.0	103.6
1.15 p. m.	105.4	103.8
3.15 p. m.	104.5	103.4

Lymphatics.— Retro-pharyngeal, with white, fibrous foci. Prescapular, enlarged. Post. mediastinal and other thoracic, with few, soft, cheesy foci. Uterus, with male foetus, 7 months.

Diagnosis.— Tuberculosis.

(7) Variety, Native, and part Jersey. Age, 1 year. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.	
8.15 p. m.	101.6	102.6
Injection: U. S. 2 cc. K. 0.3 cc.		
8.30 a. m.	105.8	105.8
10.45 a. m.	106.8	104.4
1.15 p. m.	105.0	103.6
3.15 p. m.	105.4	104.0

Lymphatics.— Retro-pharyngeal, one two and one-half inches by one and one-half inches, white, caseous. Mesenteric, one two by one and one-half inches, parenchyma, intermingled with soft, caseous, yellow materials.

Diagnosis.— Tuberculosis.

(8) Variety, Native. Age, 10 months. Sex, female.

Condition, fair.

Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	101.6	103.8
Injection: U. S. 2 cc. K. 0.3 cc.		
8.30 a. m.	104.0	105.6
10.45 a. m.	104.3	104.3
1.15 p. m.	103.5	104.2
3.15 p. m.	103.8	104.0

Lymphatics.— Post. mediastinal, small, soft, cheesy foci. Cardiac, one and one-half inches in diameter, parenchyma, dotted with soft, caseous, yellow material. Other thoracic, one do. Right and left lungs, with few scattered, shot-like, caseous foci.

Diagnosis.— Tuberculosis.

(9) Variety, Native. Age, 10 months. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.	
9.15 p. m.	102.6	103.6
Injection:		
8.30 a. m.	106.7	104.8
10.45 a. m.	106.2	104.2
1.15 p. m.	105.6	103.2
3.15 p. m.	105.4	103.5

Lymphatics.— Prescapular, right, enlarged. Mediastinal, one, with small foci, soft, cheesy. Cardiac, egg size, with parenchyma and caseous material, intermingled.
Diagnosis.— Tuberculosis.

Remarks.— The inspector, writing under date of December 27, 1893, states that Mr. Simmons reported that, within the year, he had two cattle so run down that their disposal was necessary; that he applied for State aid in August, having had two become visibly affected since spring, and others not doing as well as they should. Mr. Quigley visited the herd on or about August twenty-eighth, and diagnosed the disease as tuberculosis.

The first two cows were purchased from different farms, about three years ago. One was attacked by a swelling at the throat so as, in the course of time, to obstruct her breathing. Both became of poor condition. Not knowing the nature of the disease, Mr. Simmons disposed of them to other farmers, who felt confident of effecting a cure by "doctoring." The cattle were reported to have been finally killed and buried.

At the time of my first visit, December twentieth, I found two cows in very thin condition and with glands of the throat so enlarged that they were rank cases of that type of tuberculous animals, known as roarers. They cough and roar to that extent that, as Mr. Simmons expresses it, he has become tired of it. Although the laryngeal sounds were very loud I am quite sure I heard abnormal lung sounds in each. A third cow, more recently

taken, has a very large udder, gargety, inflamed and swollen. An egg-size lump in the left front quarter leads me to suspect tuberculosis. The disease is accompanied by a high fever, being 104.6 F. in the evening of the first inspection, December twentieth, and 106.5 F. at a like time in the second, December twenty-fifth.

Mr. Simmons stated that he could not keep them in condition, although graining them, and that the milk of others dried off too early.

The cattle were tested with the tuberculin of the United States Bureau of Animal Industry on the evening of December twentieth, and again, with the tuberculin of Libbertz, Koch's, on the evening of December twenty-fifth.

The second inspection was believed by me to be desirable, both as a comparative test as to the merits of the two varieties, and to aid in the detection of slightly affected animals, which had given no positive evidence in the first inspection. The second test followed the first so soon because of the receipt of a telegram from Mr. Simmons, regarding the dying condition of one of the badly affected cows, and both his and my own desire to finish with this herd at earliest opportunity.

It appears that after the injection of the United States tuberculin that all or nearly all of the animals, according to Mr. Simmons, were more or less affected. On the second day following, they refused their food to some extent, and drooped. One of the roarers, No. 2, became more swollen about the throat, and Mr. Simmons seriously considered whether he should not end her life and misery. In the yearlings, and in a few of the cows, I noticed, on the twenty-sixth, a thickened condition of the skin at the point of injection. On the whole, it seems that for some reason there has been more systemic disturbance following this last injection of U. S. tuberculin than hitherto reported. I remember, however, that disturbances of health, especially in certain animals of herds injected with the Libbertz material, had been reported at times past.

Accepting 105 degrees F. as a minimum reaction, it will be seen that the U. S. material selected seven animals;

namely, Nos. 1, 2, 3, 4, 6, 7, 9; while Libbertz indicates, in addition, two more; namely, Nos. 5 and 8. Of the temperatures less than 105 degrees, but above 103.8 degrees (the standard proposed by the Bureau of Animal Industry) the U. S. material selected one and a yearling bull; while Libbertz selected two. (These animals were not killed.)

The modification of the system by the injection of the U. S. material, and the injection of the Libbertz following so soon after (5 days), can scarcely be reckoned upon, as our data in this line is yet insufficient.

Herd of Charles T. Meloy. Richford, January 13, 1894.

Variety, Grade Jersey. Age, 4 years. Sex, female.

Condition, medium.

Tuberculin experiment, with U. S. B. A. I.:

Time.	Temperature.
8.30 p. m.	101.8
Injection:	
9.15 a. m.	102.0
11.15 a. m.	102.4
1.30 p. m.	104.6
3.30 p. m.	105.6

Lymphatics.— Prescapular, enlarged. Post. mediastinal, small, few pea-size foci, yellow and cheesy. None in cardiac. One mediastinal, one inch in diameter, yellow, cheesy. Omentum, with neoplastic tags. Right lung, with one and one-half inches mass, pea-size discrete, yellow, cheesy masses. Uterus, no foetus.

Diagnosis.— Tuberculosis, mild.

TOMPKINS COUNTY.

Herd of S. C. Golding. Groton, January 28 to February 10, 1893.

(1) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	102.50
Injection, 0.25 gramme:	
9 hours after	104.20
11 do	106.50
13 do	107.25
20 do	104.50

Mediastinal and mesenteric glands, tuberculous and caseated. The lungs and lymphatic glands of the throat, trunk and skin, apparently sound.

Diagnosis.— Tuberculosis.

(2) Variety, Grade Jersey. Age, ———. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	101.75
9 hours after	102.25
11 do	104.00
13 do	106.00
20 do	105.40

Mediastinal glands, tuberculous and caseated. Otherwise, apparently sound.

Diagnosis.— Tuberculosis.

(3) Variety, Grade Jersey. Age, ———. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	102.0
9 hours after	103.0
11 do	106.0
13 do	106.7
20 do	105.0

Mediastinal glands, tuberculous and caseated. Otherwise, apparently sound.

Diagnosis.— Tuberculosis.

(4) Variety, Grade Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Before injection	102.0
9 hours after	104.0
11 do	105.0

Mediastinal glands, tuberculous, with caseous centres. Otherwise, apparently sound.

Diagnosis.— Tuberculosis.

(5) Variety, Grade Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Before injection	103.2
10 hours after	104.0
16 do	105.0
18 do	104.8

Mediastinal glands, tubercular, with caseous centres. Otherwise, apparently sound.

(6) Variety, Grade Jersey. Age, ———. Sex, female.
Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	102.3
10 hours after	104.6
16 do	104.0
18 do	102.8

Group of caseated tubercles in the anterior lobe of left lung. Mediastinal glands, tubercular and caseated.

Diagnosis.— Tuberculosis.

(7) Variety, Grade Jersey. Age, ———. Sex, male.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Before injection	100.2
10 hours after	105.2
16 do	104.2
18 do	104.3

Post-mortem, lesions. Mediastinal and mesenteric glands, swollen, red and congested; some, reddish black.

Diagnosis.— Tuberculosis.

Herd of Wm. E. Pike. Groton, January 28, 1893.
Variety, Registered Jersey. Age, ———. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
Before injection	102.5
11 hours after	106.5

Enormous tubercles, mostly caseated, in the mediastinal lymphatic glands.

Diagnosis.— Tuberculosis.

Herd of Wm. H. Burnham. Groton, February 10, 1893.

(1) Variety, Registered Jersey. Age, 7 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	102.8
11 hours after	104.75

Mediastinal glands, tuberculous and partially caseated; otherwise apparently sound.

Diagnosis.— Tuberculosis.

(2) Variety, Registered Jersey. Age, 8 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	100.0
11 hours after	100.0

Tubercles in great number in anterior lobes of the lungs and mediastinal glands; much caseated.

Diagnosis.— Tuberculosis.

Herd of W. B. Sears. Groton, February 10, 1893.

Variety, Registered Jersey. Age, ———. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	101.6
12 hours after	106.0

Tuberculosis of the mediastinal glands largely caseated.

Diagnosis.— Tuberculosis.

Herd of E. G. Youmans. Groton, March 3, 1893.

(1) Variety, Registered Jersey. Age, ———. Sex, male.

Condition, good.

Tuberculin experiment:

Time.	Temperature.
Before injection	99.5
13 hours after	106.0

Extensive tuberculosis of pharyngeal lymphatic glands, with considerable caseation.

Diagnosis.— Tuberculosis.

(2) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, good, March eleventh.

Tuberculin experiment:

Gave strong reaction. Record of temperature mislaid. Caseated tubercle near point of the shoulder. Tubercular caseated mediastinal glands.

Diagnosis.— Tuberculosis.

(3) Variety, Grade Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Gave strong reaction. Record of temperature mislaid. Caseated mediastinal and mesenteric glands.

Diagnosis.— Tuberculosis.

(4) Variety, Registered Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Gave strong reaction. Record of temperature mislaid. Tuberculosis of the mediastinal glands, partly caseated.

Diagnosis.— Tuberculosis.

(5) Variety, Registered Jersey. Age, ———. Sex, female.

Condition, good.

Tuberculin experiment:

Gave strong reaction. Record of temperature mislaid. Tuberculosis of the mesenteric and sub-lumbar glands, in part, caseated.

Diagnosis.— Tuberculosis.

The inspector's report of work in Groton is here given in full, as it is considered the expressed opinions from such a source will carry their own value.

REPORT ON HERDS EXAMINED FOR TUBERCULOSIS NEAR GROTON, TOMPKINS CO., JAN. TO MARCH, 1893.

The herds of cattle in the neighborhood of Groton, in which I employed the tuberculin test, numbered 139 head in the aggregate. Of these, sixty-three head were subjected to this test, the whole herd having been tested when there was evidence that the disease had been present for some time, and only suspected animals in herds in which the disease had not been demonstrated. In sixteen cases, the temperature of the animal rose materially after the injection of the tuberculin; and in the absence of any other pathological or physiological condition to account for such rise, I followed my usual practice of condemning the animal on the strength of this evidence. The necropsy, in every instance, sustained this decision, as, in every case, excepting one (Mr. Gooding's bull), not only were tubercles found, but they had in great part advanced to the condition of caseation. In the exceptional case of the bull the earlier stage of the tubercular process was unmistakably shown by the enlarged and congested glands. This was further corroborated by the fact that the cow that stood by his side and ate from the same manger was the subject of extensive and caseated tubercles.

In the accompanying table will be found a record of the temperature of thirty-two animals in infected herds subjected to the test with tuberculin, and of five animals in uninfected herds similarly tested. The contrast furnished by the twelve

condemned animals, of which the temperature is given, and the twenty-one which show no elevation of temperature sufficient to condemn them, will well illustrate the value of this modern accessory to diagnosis in the lower animals. In every instance in which reaction occurred the temperature rose from 2.5 degrees to 5 degrees above the normal, whereas, in the uncondemned, there was no variation more than might have occurred in perfect health and in the absence of the tuberculin.

The table demands some words of explanation. First, a more extended list of temperatures, covering a period from the tenth to the twentieth hour after injecting the tuberculin, would have been desirable, and this is furnished for the Gooding herd, excepting in the case of the three yearlings, which were difficult to manage, and far less likely to be diseased on account of their youth. Most of the later examinations and tests were made under extraordinary difficulties, in the midst of severe snowstorms, with many of the roads impassable, and several herds in hand at once, individually separated from each other by distances of from two to five miles. On one occasion the visits were continued, at points wide apart, in the face of a veritable blizzard, until 3 a. m., and by this means the records given were obtained. Where only two temperatures could be obtained for any animal a point was made of having the second one taken from the eleventh to the thirteenth hour, when the reaction could be reasonably well counted on, if likely to occur at all. Another point, deserving of explanation, is the showing that on February third, the Gooding herd, before the injection of tuberculin, were almost without exception, 1 degree to 1.5 degrees above the normal temperature. The explanation is that they had gone over an hour beyond the usual time for watering, and in a hot basement stable a slight fever was the result. Had a similar occurrence taken place ten or twelve hours after the use of the tuberculin, a careless or incompetent operator, who looked to nothing but the temperature, might have condemned a lot of healthy animals, and found himself covered with confusion when he came to make a post-mortem examination.

In the case of four of Mr. Youmans' condemned cows the temperature record has been mislaid, but it was so unequivocal that I felt abundantly justified in condemning, in the face of the owner's profound grief at the loss of the founders of his "Neptune" family of Jerseys, to which he had devoted years of effort. Even after he saw the caseated tubercles, he could not reconcile himself to his loss, while acknowledging freely the justice of the condemnation.

TABLE GIVING RESULTS OF TUBERCULIN TEST IN HERDS NEAR

OWNER AND RESIDENCE.	Date.	Subject.	Breed.	Condition of animal.	TEMPERATURE IN ANUS. Before tuberculin.	AFTER INJECTION WITH TUBERCULIN. Hour 9th.	Hour 11th.	Hour 13th.	Hour 20th.
	1893. Jan. 27, 28.	Dark-brown cow	Jersey grade.	Good.	Deg. 102.5	Deg. 104.2	Deg. 106.5	Deg. 107.25	Deg. 104.5
	" 27, 28.	Lig't-yellow cow	Reg'd Jersey.	Good.	101.75	102.25	104.0	106.0	105.4
	" 27, 28.	Dark-brown cow	Jersey grade.	Good.	102.0	103.0	106.0	106.7	105.0
	Feb. 3, 4.	Cow.....	Jersey grade.	Good.	102.0	104.0	105.0	.....	.....
	" 3, 4.	Cow.....	Jersey grade.	Good.	103.2	10th 104.0	16th 105.0	18th 104.8	.....
	" 3, 4.	Cow.....	Jersey grade.	Good.	102.8	104.6	104.0	102.8	.....
	" 3, 4.	Bull.....	Reg'd Jersey.	Good.	100.2	105.2	104.2	104 8	.....
	" 3, 4.	Cow.....	.....	Good.	102.7	101.5	102.0	.....	.....
	" 3, 4.	Cow.....	.....	Good.	103.0	101.0	102.0	.....	.....
S. C. Gooding, 2½ miles east of Groton.	" 3, 4.	Cow.....	.....	Good.	102.0	101.0	101.2	.....	.....
	" 3, 4.	Cow.....	.....	Good.	103.6	102.8	102.8	.....	.....
	" 3, 4.	Cow.....	.....	Good.	103.2	102.4	101.6	.....	.....
	" 3, 4.	Cow.....	.....	Good.	103.2	102.2	102.25	.....	.....
	" 3, 4.	Cow.	.....	Good.	103.2	102.8	103.2	.....	.....
	" 3, 4.	Cow.....	.....	Good.	102.75	102.4	102.2	.....	.....
	" 3, 4.	Cow.....	.....	Good.	103.5	101.8	102.5	.....	.....
	" 3, 4.	Cow....	.....	Good.	102.5	100.8	101.7	.....	.....
	" 3, 4.	Yearling.....	.....	Good.	103.0	101.2	... .	.....	.....
	" 3, 4.	Yearling.....	.....	Good.	102.75	102.5	.....	.....	.....
	" 3, 4.	Yearling.....	.....	Good.	102.8	101.8	.....	.....	.....
W. E. Pike, Groton.	Jan. 27, 28.	Light-gray cow..	Reg'd Jersey.	Good.	102.5	11th 106.5	.....	.....	... .
	Feb. 3, 4.	1 cow; 2 yearl'gs.	Jersey	Good.	*	*	*	*	*
	" 3, 4.	7-year old cow...	Reg'd Jersey.	Good.	102.8	104.75	.....	.....	.....
	" 3, 4.	8-year old cow...	Reg'd Jersey.	Good.	100.0	106.6	.....	.....	.....
	" 3, 4.	Cow.....	Reg'd Jersey.	Good.	101.2	102.25	.....	.....	.....
	" 3, 4.	Cow.....	Reg'd Jersey.	Good.	101.3	101.5	.....	.....	.....
Wm. H. Burnham, 2 miles north of Groton.	" 3, 4.	Cow.....	Reg'd Jersey.	Good.	102.0	102.5	.....	.....	.....
	" 3, 4.	Bull.....	Reg'd Jersey.	Good.	101.6	101.0	.....	.....	.....
	" 17.	Calf.....	Reg'd Jersey.	Good.	102.0	102.0	.....	.....	.....
	" 17.	Calf..... .	Reg'd Jersey.	Good.	101.0	102.0	.....	.....	.....
	" 17.	Calf.....	Reg'd Jersey.	Good.	100.5	101.75	.....	.....	... .
W. B. Sears, 2½ miles north of Groton.	" 3, 4.	Yellow cow	Reg'd Jersey.	Good.	101.6	12th 106.0	....	.....	.....
	" 3, 4.	Cow.....	Native	Good.	*	*	*	*	*
E. G. Youmans, Groton City, 5 m. east of Groton.	" 17.	Bull.....	Reg'd Jersey.	Good.	99.5	18th 106.0	.....	.....	.....
	Mar. 3.	Black cow.....	Jersey grade.	Good.	†	†	†	†	†
	" 3.	Brown cow.....	Jersey grade.	Good.					

*No rise in temperature.

HETON, TOMPKINS COUNTY, N. Y., JANUARY TO MARCH, 1893.

Dose of tuberculin, ramme.	Tuberculous or not.	Post-Mortem Examination.	
		Date.	Lesions.
0.25	Yes.....	Jan. 26.,	Mediastinal and mesenteric glands tuberculous and caseated. The lungs and lymphatic glands of the throat, trunk and skin apparently sound.
0.25	Yes.....	" 26..	Mediastinal glands tubercular and caseated; otherwise apparently sound.
0.25	Yes.....	" 26..	Mediastinal glands tubercular and caseated; otherwise apparently sound.
0.25	Yes.....	Feb. 10..	Mediastinal glands tubercular with caseous centres; otherwise apparently sound.
0.25	Yes.....	" 10..	Mediastinal glands tubercular with caseated centres; otherwise apparently sound.
0.25	Yes.....	" 10..	Group of caseated tubercles in the anterior lobe of left lung; mediastinal glands tubercular and caseated.
0.25	Yes.....	" 10..	Mediastinal and mesenteric glands swollen, red and congested; some reddish-black.
0.25	No.....	....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.25	No.....	....	.....
0.25	No.....	.....	.....
0.25	No.....	.....	.....
0.2	No.....	.....	.....
0.2	No.....	.....	.....
0.2	No.....	.....	.....
0.25	Yes.....	Jan. 26..	Enormous tubercles mostly caseated in the mediastinal lymphatic glands.
15 & 0.2	No.....	.....	.....
0.25	Yes.....	Feb. 10..	Mediastinal glands tuberculous and partially caseated; otherwise apparently sound.
0.25	Yes.....	" 10..	Tubercles in great numbers in anterior lobes of the lungs and mediastinal glands; much caseated.
0.25	No.....	....	.....
0.25	No.....	.....	.....
0 25	No.....	.....	.....
0.25	No.....	.....	.....
0.06	No.....	.....	.....
0.06	No...	.....	.....
0.06	No.....	.....	.....
0.25	Yes.....	Feb. 10..	Tuberculosis of the mediastinal glands largely caseated.
0.25	No.....	.....	.....
0.25	Yes.....	Mar. 8..	Extensive tuberculosis of pharyngeal lymphatic glands with considerable caseation.
0.25	Yes.....	" 11..	Caseated tubercle near the point of the shoulder; tubercular caseated mediastinal glands.
0.25	Yes.	" 11..	Caseated mediastinal and mesenteric glands.

† Gave strong reaction; record of temperature mislaid.

TUBERCULIN TEST—

OWNER AND RESIDENCE.	Date.	Subject.	Breed.	Condition of animal.	TEMPERATURE IN ANUS.				
					Before tuberculin.	AFTER INJECTION WITH TUBERCULIN.			
						Hour 13th	Hour 18th	Hour 13th	Hour 20th
	1893.				Deg.	Deg.	Deg.	Deg.	Deg.
E. G. Youmans, Groton City, 5 m. east of Groton.	Mar. 8.	Fawn cow.....	Reg'd Jersey.	Good.	*	*	*	*	*
	" 8.	Fawn cow.	Reg'd Jersey.	Good.					
	" 8.	3 cows	Grades.....	Good.	†	†	†	†	†
E. P. Hart, 3 miles north of McLean.	Feb. 17.	Cow.....	Jersey grade.	Good.	101.0	101 0	.....	.....	.....
	" 17.	Cow.....	Jersey grade.	Good.	99.0	99.0	.....	.....	.....
	" 17.	Cow.....	Native.....	Good.	100.75	101.0	.....	.....	.....
John Walpole.....	" 17.	Cow.....	Native.....	Good.	100.5	101.0	.....	.....	.....
	" 17.	Cow.....	Native.....	Good.	101.0	101.5	.....	.....	.....

* Gave strong reaction; record of temperature mislaid.

NAMES OF REGISTERED

S. G. Gooding, Trixia (Cow), ? (Bull).
W. H. Burnham, Lena of Spring Brook, 49924, A. J. H. B.
Juno of Oakdale, 41397, A. J. H. B.

(*Concluded*).

Dose of tuber-culin, gramme.	Tuber-culous or not.	Post-Mortem Examination.	
		Date.	Lesions.
0.25	Yes.....	Mar. 11..	Tuberculosis of the mediastinal glands, partly caseated.
0.25	Yes.....	" 11..	Tuberculosis of the mesentric and sublumbar glands in part caseated.
0.25 each	No	.....	.....
.....	No.....	.....	REMARK.— This cow had a diseased udder, alleged to have been "hooked."
... .	No.....	.....	.....
.....	No.....	.....	.....
....	No...	.....	.....
.....	No.....	.....	.....

†Gave no reaction.

COWS, ETC., IN TABLE.

W. B. Sears, Paula of Spring Brook.
Wm. E. Pike, ?
E. G. Youmans, ?

METHOD OF OPERATING WITH TUBERCULIN.

For an average cow, I employ about four drops; for a very large animal (Shorthorn, Holstein, Hereford, etc.), a half more; for a yearling, two drops; for a six months' calf, one drop. A stoppered bottle, with water that has been thoroughly boiled, is provided for the dilution of the tuberculin, and a vessel with scalding water, or a watery solution of carbolic acid (1:20) to wash the nozzle of the hypodermic syringe, between successive injections of different animals. By using the carbolic solution on the nozzle, one may be saved from the necessity of washing the skin and wetting it with this lotion. In hundreds of injections of tuberculin, I have not yet met with a resulting abscess. The point of injection may be made as convenience may dictate, the abundance of subcutaneous connective tissue, the thinness and purity of the skin, and a position where the operator will be free from danger from the horns or hind foot, helping to a decision. Having an assistant hold the animal by the nose, I have usually injected on the side of the neck, on the shoulder, or on the lower part of the chest. The tuberculin can be dropped into a scalded porcelain dish, and a hypodermic syringe, full of the boiled water, thoroughly mixed with it; it is then drawn back into the syringe and injected into the subject, care being taken that it enters the loose, connective tissue. The conditions of life for the subject of the test should not be changed in any way, and the temperature taken immediately before or after the injection is to be taken, as the standard with which to compare the subsequent ones. The subsequent temperatures should be taken, by preference, from the eighth to the twentieth hour after injection, and at intervals of one hour. If this cannot be done, it may begin with the tenth or twelfth, and may be repeated every second hour up to the sixteenth. Cases are very exceptional that will not show the rise between the twelfth and sixteenth.

SOURCES OF FALLACY IN USING TUBERCULIN.

Those who are most experienced in the use of tuberculin, as a test for tuberculosis, are the most firmly convinced of its

value. Nocard, and others, who, at first, found a certain number of cases in which it appeared to mislead, by producing reaction, in the absence of tubercle, are now rather of the opinion that the apparent mistakes have been their own, and would not have been suspected as such had they sought more carefully for tubercles that really existed in secluded lymphatic glands, bones, etc. Indeed, some, like Professor Eggeling, object to the test, because it is too certain in its results, and leads to the condemnation of animals with those secluded and circumscribed groups of tubercles, which do not seem to interfere with the general health, with the flow of milk, nor with the laying on of flesh. If the circumscribed tubercle is not in the udder, he would let such an animal be still utilized for the dairy, or for the butcher's stall. This may do for an attempt at a partial restriction of the prevalence of tuberculosis; but, if we aim at its final extinction, such a system of deliberately preserving the germ of tuberculosis in our herds must render our efforts largely futile. No one can tell at what moment the latent and circumscribed tubercle is about to make a general extension through the body, and, as the germ travels through the blood, in many cases, before it can form new tubercles at a distance from the original one, other animals are liable to be contaminated before this extension of the disease is suspected. No country has ever stamped out an animal plague on the basis of preserving in life those cases of the disease that may be expected to recover. This might be accomplished, it is true, by a most expensive process of seclusion of the diseased and disinfection, but, in the case in hand, seclusion is not even proposed.

One source of error is the absence of reaction under tuberculin in many of the worst and most advanced cases of the disease. But no man who should be trusted with tuberculin can have even the desire to use it on such cases. The objective symptoms are more than enough to betray these aggravated cases. The system of the animal is already so surcharged with the poisons of tuberculin, that the small addition we make in the injection is without

effect. This is an unanswerable argument against tuberculin in incompetent hands, but not at all against its use by a practitioner skilled in the diseases of cattle.

Again, the supervention of oestrum after the injection of the tuberculin will cause a rise of temperature in the healthy animal at the time, when it might justly be expected in the tuberculous. This is another argument against the use of tuberculin by the careless or incompetent, but not at all against its use by the careful and skillful practitioner.

Again, the temperature rises as parturition approaches, and under the action of tuberculin sometimes rises more than it would otherwise do. The parturient animal is, therefore, no fit subject for this test, but this is no ground for its disuse in suitable cases.

Changes of diet or regime may cause a rise of temperature at the inopportune moment and mislead the non-observant, as in the result of the privation of water in the case of Mr. Gooding's cows. Must we, therefore, condemn a valuable agent, rather than the obtuseness of the operator? Certainy not. Even when reaction has ensued a full drink of ice-cold water just before the temperature is taken may prevent the record of the actual rise, and the tuberculous animal may be left as sound, if the operator is too blind to see the source of his blunder.

Once more, any casual fibrile or inflammatory disease coming on after the injection of tuberculin may easily mislead the unskilled or the unwary, into a condemnation for tuberculosis. But is tuberculin to be charged with an error like this? Unless the operator is a skillful pathologist of cattle, and unless he scrutinizes his subjects carefully for possible accidental causes of a rise of temperature, errors of this kind will arise. It is not enough that the operator is intimately acquainted with tuberculosis; he must also be profoundly learned in other diseases of cattle, and their diagnosis, if he would avoid an occasional blunder.

The only conclusion is that tuberculin, however infallible in its indications, when intelligently employed, cannot be considered so, if used as a popular test, in lay hands, or even in the hands

of professional men who are not thoroughly acquainted with the hygiene, physiology and diseases of cattle. The mistaken assumption has been that any rise of temperature, occurring ten hours or more after the application of the tuberculin test, is a certain indication of tuberculosis. If this is claimed, then truly tuberculin must be abandoned. But if we qualify the claim so as to make it read "that any material rise of temperature occurring between ten and twenty hours after the application of the tuberculin test, in the absence of any other condition sufficient to account for such rise, is an indication of tuberculosis," then the claim may be sustained in the face of all opposition. But this demands that tuberculin shall be used only by practitioners who are skillful enough not to overlook such alternative causes of elevation of the body heat.

SOME LIMITATIONS OF THE TUBERCULIN TEST.

In seeking to state succinctly some of the more obvious limitations of the tuberculin test, the following may be named:

First. The tuberculin must be of nearly uniform potency, and absolutely sterilized. If living bacilli have been left in it, it will infect healthy animals with tuberculosis.

Second. It must be used in a dose proportionate to the size of the animal, and the susceptibility of the genus of animal tested. Weight by weight, it is far more effective on some genera than on others.

Third. It should be used with due antiseptic precautions; otherwise, other (septic) infectious diseases may occur to mislead the operator.

Fourth. It should not be used on animals in certain physiological or pathological conditions; otherwise, other causes of increasing temperature will complicate and invalidate the results.

Fifth. It should not be used by anyone who is not fully competent to detect any contemporaneous disease of cattle, etc., other than tuberculosis, and which has set in since the injection of the tuberculin.

Sixth. It should never be used as a test for tuberculosis in any case, unless the single object is the remorseless destruction of every animal found to be tuberculous. As a test, therefore, it must not be used upon man, nor upon any animal that cannot be slaughtered if found to be affected by tubercle. The value of tuberculin, as a test, depends largely on its power of increasing and extending the disease process in any previously existing tubercle. In the case of a single, local, superficial tubercle (lupus), tuberculin may cure by causing the death and sloughing off of all diseased tissue with all the living germs included in it; but, if there are, at the same time, any deeply seated tubercles which cannot be thus thrown off, its action is dangerous in the highest degree. The physician who uses it on a man having internal tubercles, assumes a fearful responsibility, and the veterinarian who will use it as a test for tuberculosis when there is no intention of destroying the animals that may be found affected, is simply contributing to the extension of the disease.

Seventh. From the same standpoint, it may be said that the State is reprehensible for using this agent on animals, unless it is prepared to at once destroy and pay for all that are proved to be tuberculous. The correlative of the use of tuberculin, by State agents, is that the State must stand ready to kill the diseased and to indemnify the owners, with the single aim of the extinction of the disease germ in the herds.

Eighth. State disinfection of contaminated premises, and the exclusion of consumptive persons from attendance on the purified herds, are further correlatives.

Ninth. Another condition of its use may be said to be a systematic movement to purify the herds of an entire district, and finally of the entire State, for, otherwise, the still contaminated herds in the vicinity of those that have been purged of the infection are likely to reinfect the latter sooner or later.

Tenth. Another condition is that the purified herds shall not be permitted to receive renewed infection through the purchase or introduction of tuberculous animals. They should be left

to their natural increase by generation, or if new stock must be introduced, it should be guaranteed by the proper tests before it is allowed to mingle with the purified herd. There is no justice in charging on the commonwealth the cost of purifying a herd, and then leaving such herd open to renewed infection from outside sources.

FAMILY SUSCEPTIBILITY AS SHOWN IN THE GROTON HERDS.

This group of cases furnishes an interesting illustration of the tendency of tuberculosis to run in susceptible families. The fact that the condemned animals were mainly Jerseys is not so much a condemnation of that breed of cattle as of the particular family of Jerseys here represented. The source of the trouble was traced to a cow bought by Mr. Burnham in 1888, at a sale in Binghamton, N. Y. Some years after, this cow died consumptive. Her calves were considered to have poor constitutions, and were mostly disposed of. One of these died consumptive in 1892, in the herd of Mr. Gooding, and left the infection in his herd, two dying the same year. A second died the same year in the herd of Mr. Youmans, leaving the infection in his herd. The two killed tuberculous in the herds of Messrs. Pike and Sears, were calves of the same Binghamton strain of blood. Here, the one diseased cow had her descendants practically wiped out of five herds into which I could trace them, besides conveying tuberculosis to other members of three of the herds in question. This fact of racial susceptibility has been so long and so prominently before the minds of physicians that it tended to obscure the no less important fact of contagion. Now, the sanitarian, in concentrating his attention on contagion, will do well to investigate along the family lines as well, as this will greatly assist in the discovery and eradication of the infection.

JAMES LAW.

CORNELL UNIVERSITY, ITHACA, N. Y., *February* 6, 1894.

WARREN COUNTY.

Herd of W. G. Rogers. Glens Falls, September 6, 1893.

(1) Variety, Grade Jersey. Age, 7 years. Sex, female.

Condition, ———.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	101.4
Injection:	———
8 a. m.	102.0
9.45 a. m.	102.6
10.30 a. m.	103.5
11.30 a. m.	105.0
1 p. m.	106.0
3 p. m.	105.0

Shoulder glands, with tubercular foci. Neoplastic fringe on the pleura, covering the entire thoracic walls. Anterior thoracic gland, much enlarged, and with numerous cheesy foci. Post. mediastinal gland, twelve inches in length by two and a half inches in diameter. Two anterior mediastinal glands the size of a goose egg, with cheesy foci, and three other glands also the size of goose eggs. Hepatic glands, contain small tubercular foci. Omentum, contains neoplastic fringe. Intestinal lymphatics, with twelve tubercular nodules, which contain cheesy deposits. Neoplastic fringe on pericardium. Inguinal glands, enlarged, with tubercular foci.

Diagnosis.— Generalized tuberculosis.

(2) Variety, Jersey. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	101.8
Injection:	———
8 a. m.	102.1
9 a. m.	104.0
9.45 a. m.	104.2

Time.	Temperature.
11.30 a. m.	104.2
1.30 p. m.	106.0
3 p. m.	104.0

Left post. pharyngeal glands, enlarged, to the size of a muskmelon, with two pus cavities, and numerous cheesy deposits. Right post. pharyngeal gland, enlarged, with numerous tubercular foci. Flank glands, enlarged, and with tubercular foci. Shoulder glands, enlarged, with tubercular foci. Lymphatics. Intestinal, numerous small, tubercular foci. Inguinal glands, tubercular foci.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	101.9
Injection:	
8 a. m.	101.3
9.30 a. m.	102.5
11.30 a. m.	104.0
1 p. m.	104.0
3 p. m.	104.0

Tumor on left knee, eight inches in length and four wide and three in thickness, containing tubercular material. Shoulder glands, with tubercular foci. Post. mediastinal gland, much enlarged, with cheesy foci. Cardiac glands, with tubercular foci. Large abscess in lower portion of left lung. Neoplastic fringe on the omentum. Intestinal lymphatics, contain many cheesy foci. Inguinal glands, enlarged, with tubercular foci. Hepatic glands, tubercular foci.

Diagnosis.— Incipient tuberculosis.

(4) Variety, Jersey. Age, 8 years. Sex, female. September 21, 1893.

Tuberculin experiment:

Time.	Temperature.
9.30 p. m.	101.7
Injection:	
8 a. m.	102.1
10.30 a. m.	103.3
12 m	104.2
2 p. m.	103.7

Posterior pharyngeal glands, contain gray foci. Left shoulder gland, with fibrous foci. Right shoulder, hemorrhagic and fibrous foci. Marked neoplastic growths on posterior border of lungs. Posterior mediastinal glands, contain several fibrous foci. Neoplastic growths on pericardium. Intestinal lymphatics, with numerous cheesy deposits. Uterus, with foetus.

Diagnosis.— Incipient tuberculosis.

(5) Variety, Grade Jersey. Age, 5 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.7
Injection:	
Morning	101.1
do	102.4
do	103.2
do	104.0

Post. pharyngeal, contains hemorrhagic points. Left shoulder gland, with fibrous foci. Inguinal, with gray foci. Flank glands, with gray foci. Right shoulder glands, with hemorrhagic and gray foci. Cheesy foci in cardiac and mediastinal glands. Tubercles on the omentum. Hepatic glands, reddened. Uterus, with 5 months foetus.

Diagnosis.— Tuberculosis.

(6) Variety, Jersey. Age, 8 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.6
Injection:	
Morning	101.8
do	104.0
do	104.8
do	104.0

Posterior pharyngeal glands, with spot size of pea, hemorrhagic. Inguinal, with gray foci. Right shoulder, contains hemorrhagic points. Left shoulder, with fibrous foci. Right lung, with small abscess. Post. mediastinal, contains numerous pea-size deposits. Ant. mediastinal glands, cheesy deposits. Neoplastic growth on pericardium, also on inner side of pleura. Flank glands, with hemorrhagic points and fibrous foci. Hemorrhagic foci throughout the intestinal lymphatics. Uterus, with foetus.

Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 5 years. Sex, male.

Tuberculin experiment:

Time.	Temperature.
Evening	101.5
Injection:	
Morning	105.2
do	105.0
do	105.6
do	105.0

Posterior pharyngeal, contains fibrous foci. Left shoulder gland, slightly reddened, with hemorrhagic points. Posterior mediastinal glands, slightly affected, containing gray and cheesy foci. Tubercular growth on inner side of omentum. A few deposits on spleen and pleural surface of diaphragm.

Diagnosis.— Incipient tuberculosis.

Remarks.— The inspector states that Mr. Rogers had lost a cow last spring of a wasting disease; that he had lost one every year for the past five years, of a wasting disease, according to Mr. Rogers' statement. The animals, bred and raised on the place, had been fed on the milk of their mothers for a time, and then on the mixed skim-milk of the herd.

Herd of H. G. Haviland. Glens Falls, October 25, 1893.

(1) Variety, Grade Jersey. Age, 2 years. Sex, female. Condition, good.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	102.8
Injection:	
7.30 a. m.	103.8
9.30 a. m.	104.0
11 a. m.	103.7
1 p. m.	104.0
3 p. m.	103.7

Lymphatics.— Retro-pharyngeal, gray foci. Post. mediastinal, calcareous deposits. Pericardium, with neoplastic growths. Mesenteries, covered with neoplastic growths. Omentum, covered with neoplastic growths. Uterus, normal. Uterus, with foetus, male. Mammae, normal.

Diagnosis.— Incipient tuberculosis.

(2) Variety, Jersey. Age, 4 years. Sex, female.

Condition, poor.

Lymphatics.— Retro-pharyngeal, gray foci. Inguinal, enlarged, with gray foci. Post. mediastinal, with calcareous deposits. Intestinal, with calcareous deposits. Pericardium, with neoplastic growths. Mesenteries and omentum, covered with neoplastic glowths. Uterus, cheesy, calcareous deposits. No foetus.

Diagnosis.— Incipient tuberculosis.

Herd of W. G. Rogers. Glens Falls, November 4, 1893.

(1) Variety, Jersey. Age, 6 years. Sex, female.

Condition, poor.

A bunch inside of left elbow proved to be a tuberculous abscess, size of goose egg.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	101.7
Injection:	
8 a. m.	105.8
9.30 a. m.	106.0
11.30 a. m.	105.8

Lymphatics.— Retro-pharyngeal, gray deposits; one or two calcareous deposits. Prescapular, cheesy deposits. Inguinal, enlarged, with gray foci. Post. mediastinal, ant. mediastinal and cardiac, with calcareous deposits. Hepatic and intestinal, with calcareous growths or deposits. Right and left pulmonaries, pericardium and omentum, with neoplastic growths. Liver, with calcareous deposits. Spleen, with numerous neoplastic growths.

Diagnosis.— Tuberculosis.

(2) Variety, Jersey. Age, 5 years. Sex, female.

Condition, poor.

Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	102.2
Injection:	
8 a. m.	103.0
9.30 a. m.	105.8
11.30 a. m.	106.4

Lymphatics.— Retro-pharyngeal, gray foci. Pregenal, gray foci, and hemorrhagic points. Post. mediastinal, calcareous deposits. Hepatic and intestinal, with calcareous deposits. Right pulmonary, pericardium and omentum, with neoplastic growths. Liver, with mottled appearance from growths. Spleen, with neoplastic growths.

Diagnosis.— Tuberculosis.

(3) Variety, Jersey. Age, 6 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	101.7
Injection:	
8 a. m.	106.0
9.30 a. m.	107.0
11.30 a. m.	106.2

Lymphatics.— Prescapular, gray deposits also hemorrhagic points. Inguinal, enlarged, with gray foci. Post. mediastinal and ant. mediastinal, with numerous pea-size calcareous deposits. Cardiac, size of an egg, with calcareous and cheesy deposits. Intestinal, with calcareous deposits. Omentum, with numerous neoplastic growths, four calcareous deposits. Right lung, lower section, cheesy mass as large as a goose egg. Left lung, attached to ribs; an abscess cavity in the upper part.

Diagnosis.— Tuberculosis.

(4) Variety, Jersey. Age, 2 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	102.6
Injection:	
8 a. m.	107.0
9.30 a. m.	106.0
11.30 a. m.	105.4

Lymphatics.— Retro-pharyngeal, enlarged and softening. Post. mediastinal and cardiac, with calcareous deposits. Hepatic, with gray foci. Right pulmonary, pericardium and right costal, with neoplastic growths. Omentum, with cheesy deposits and neoplastic growths. Uterine glands, with tuberculous deposits. No foetus. No mammae.

Diagnosis.— Tuberculosis.

(5) Variety, Jersey. Age, 2 years. Sex, female.
Condition, fair.
Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	103.2
Injection:	
8 a. m.	106.0
9.30 a. m.	105.8
11.30 a. m.	105.0

Lymphatics.— Retro-pharyngeal, with calcareous deposits. Prescapular, gray and hemorrhagic deposits. Inguinal, gray foci. Post. mediastinal, calcareous deposits. Left costal, with neoplastic growths. Spleen, with neoplastic growths. Uterus, with male foetus, 7 months.
Diagnosis.— Incipient tuberculosis.

(6) Variety, Jersey. Age, 2 years. Sex, female.
Condition, fair.
This heifer was milking, but the left mammary gland was covered with numerous cheesy deposits.
Tuberculin experiment:

Time.	Temperature.
8. 30 p. m.	102.8
Injection:	
8 a. m.	103.5
9.30 a. m.	103.4
11.30 a. m.	103.0
1.30 p. m.	103.6

Lymphatics.— Prescapular, gray, and hemorrhagic points. Post. mediastinal, with gray foci. Right costal, diaphragmatic, thoracic side. Mesenteries and omentum, with neoplastic growths.
Diagnosis.— Tuberculosis.

(7) Variety, Jersey. Age, 2 years. Sex, female.
Condition, good.
Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	102.0
Injection:	
8 a. m.	106.8
9.30 a. m.	107.4
11.30 a. m.	107.0

Lymphatics.— Retro-pharyngeal, enlarged and gray deposits. Hemorrhagic points, one inclined to cheesy formation. Inguinal, with gray foci. Post. mediastinal, cardiac and intestinal, with calcareous deposits. Left pulmonary, with neoplastic growths. Pericardium, with neoplastic growths. Omentum, with neoplastic growths. Liver and spleen, with neoplastic growths.
Diagnosis.— Tuberculosis.

(8) Variety, Jersey. Age, 2 years. Sex, female.
Condition, poor.
Tuberculin experiment:

Time.	Temperature.
8.30 p. m.	103.0
Injection:	
8 a. m.	106.6
9.30 a. m.	106.2
11.30 a. m.	106.0

Inguinal.— Inguinal, with gray foci. Post. mediastinal and other thoracic, with calcareous deposits. Right pulmonary, diaphragmatic, thoracic and abdominal sides, and omentum, with neoplastic growths. Right lung, with calcareous and cheesy deposits, broken down. Left lung, with tubercular abscess. Uterus, with male foetus, 6 months. No mammae.
Diagnosis.— Tuberculosis.

Remarks.— The inspector remarks that Mr. Rogers purchased Nos. 1, 2 and 3 from a stock farm in St. Lawrence county, and Nos. 4, 5, 6, 7, 8, from Messrs. Moulton Brothers, of the State of Vermont.

WASHINGTON COUNTY.

Herd of R. A. Borden. Easton, September 26, 1893.

(1) Variety, Guernsey. Age, 2 years. Sex, male.

Tuberculin experiment:

Time.	Temperature.
9 p. m.	104.1
Injection:	
8 a. m.	105.8
9.30 a. m.	106.6
11.30 a. m.	107.4
1.30 p. m.	108.0
2 p. m.	107.4

Scrotum, with nut-size tubercles and few smaller ones. Testicles, both with pigeon-egg-size, hard, tuberculous masses, the left containing the more. Left post. pharyngeals, enlarged and distorted, with cheesy nodules. Right, with fibrous foci. Both shoulder glands, enlarged, with white fibrous foci. No enlargement of the inguinal glands. Right lung, with many lumps of caseous matter, one fist size. Anterior portion of left, consolidated, and many other abscesses. Post. mediastinal, eight inches by three by two and one-half. Ant. mediastinal, orange size. Others, very much enlarged. Cardiac, orange size and cheesy, with abscess. Ribs, diaphragm and spleen, with neoplastic, tuberculous growths. Intestinal lymphatics, with hemorrhagic points and cheesy tubercles. Liver, with a fist-size, tuberculous mass near portal vein, and few scattered nodules.

Diagnosis.—Advanced tuberculosis, generalized.

(2) Variety, Guernsey. Age, 4 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	103.6
Injection:	
Morning.	107.3
do	106.9
do	105.0
do	105.0

Left inguinal, egg size. Other, with cheesy nodules. Tracheal glands, enlarged, egg size. Bronchial, also. Lungs, with large abscesses. Pleuritic adhesions of lungs, on both sides and diaphragm. Posterior mediastinal gland, eight by six by three inches. Cardiac and other glands, also enlarged and tuberculous. Liver, with numerous and scattered foci. Omentum, with very numerous "buttons." Hepatic lymph. gland, of large size and cheesy. Spleen, with foci, neoplasms on surfaces. Grapes in pelvic cavity. Mucus membranes of uterus, with numerous tuberculous patches. Intestinal lymphatics, with cheesy foci.

Diagnosis.— Advanced, generalized tuberculosis.

(3) Variety, Guernsey. Age, 3 years. Sex, female.
Tuberculin experiment:

Time.	Temperature.
Evening	103.6
Injection:	
Morning	107.3
do	107.0
do	106.4
do	105.6

Thoracic walls, with neoplastic growths. Shoulder glands, enlarged, with white fibrous foci. Ant. lobe of left lung, cheesy. Median. lobe of left and posterior, with nut-size tubercle. Many nut-size tubercles in right lung. Bronchial glands, enlarged.

Post. mediastinal, six by three by one inches. Ant., fist-size. Cardiac, orange-size. Omentum, with few tubercles, scattered and incipient neoplastic growths. Intestinal lymphatics, with cheesy tubercles. Hepatic, enlarged, with cheesy foci. Liver, with a few cheesy nodules. Uterus, with female foetus of 4 months.

Diagnosis.— Medium, generalized tuberculosis; almost advanced.

(4) Variety, Guernsey. Age, 3 years. Sex, female.

Tuberculin experiment:

Time.	Temperature.
Evening	101.2
Injection:	
Morning	101.8
do	103.9
do	105.7
do	105.5

Lungs, right, with a fist-size abscess and a few nut-size. Few in anterior lobe of left lung. Post. mediastinal glands, cheesy and calcareous. Cardiac, double-fist-size and cheesy. Peritoneum, with incipient neoplasms. External glands, reddened. Uterus, with foetus, female, 3 months.

Diagnosis.— Incipient, generalized tuberculosis.

(5) Variety, Guernsey. Age, 1 year. Sex, male.

Tuberculin experiment:

Time.	Temperature.
8 p. m.	102.0
Injection:	
8 a. m.	101.6
9.30 a. m.	103.0
11.30 a. m.	103.5
1 p. m.	102.7
3 p. m.	102.0

Posterior pharyngeal, hemorrhagic and gray foci. All the mediastinal glands, with hemorrhagic foci. Right lung, with hazel-nut-size, tubercular foci. Left lung, one small, tubercular foci. Omentum, covered with neoplastic growths. Neoplastic growths on the pericardium. Intestinal lymphatics, hemorrhagic and gray foci.

Diagnosis.— Incipient, generalized tuberculosis.

(6) Variety, Guernsey. Age, 10 years. Sex, male.

Condition, good, March 24, 1894.

Post. mediastinal, ant. mediastinal, cardiac, and other thoracic, calcareous and cheesy. The calcareous deposits on the mediastinal glands had around each a dense white membrane, encapsuling the deposit.

Diagnosis.— Tuberculosis.

Remarks.— One of the inspectors, writing under date of August 30, 1893, states: The condition of the bull, whose testicles had nodules which seemed to be tubercular in character, is one of great interest. The point is whether this animal could have transmitted tubercular bacilli with the semen to females in copulation. So rarely is this condition met with, it seems unfortunate that this animal cannot be saved for the purpose of scientific investigation. Had the State Board an experimental farm this could easily be done. Possibly the Board could make use of one of the State's agricultural experiment stations.

Another inspector, writing under date of September 3, 1893, makes the following observations. The proposed method of handling these cattle by slaughtering part and quarantining the others is by far the best that could be proposed. It was part of the scheme I had in mind, when I wished that the Board of Health had its own farm for experimental purposes.

The scheme was not for us to propose to Mr. Borden, but now that he has accepted the burden of expense and proposes to maintain strict quarantine, it seems to be for us to accept. If Mr. Borden will hold out with his herd for two or three years, or until the State can have established an experiment farm where the experiments could be continued, the Board of

Health will have under its control one of the finest opportunities for ascertaining new facts regarding heredity that could be planned.

I regard the proof that calves dropped from tuberculous dams, separated immediately, and fed either on pasturized milk or healthy milk not sterilized, will not become tuberculous until exposed to the disease at an after date, to be of the highest importance economically.

The question regarding the bull with tuberculous testicles, being a transmitter of tuberculosis, is of scientific interest, and, if proven negatively, of economic interest. When an animal gets the disease so generalized that the external glands are badly diseased, the process has proceeded so far that the animal would be dangerous, disseminating the disease by infection, and should be slaughtered.

To make sure that the hard swellings in the scrotum and sac are really tubercles is an easy task; for the nut-size tubercles are in such position that they can be cut out and examined. Should they prove to be of another origin, and Mr. Borden wished to preserve his blood in the succeeding generation, there is no reason why he, too, should not be allowed to serve these cattle.

In regard to continued tests on the tuberculous cattle, if my observations have been correct, there seems to be a zone of acute, recent inflammatory action, sometimes accompanied by hemorrhages around the tuberculous deposits. The high fever excited in these cases also points out severe inflammatory action. The process is such that it seems as though the material might be scattered by the test throughout the system. Does it not seem better, after having learned that the animal is tuberculous, to handle her, in respect to that point, by feeding, quarantine and otherwise, and not to excite renewed inflammatory actions by repeated injections of tuberculin? Koch's idea was to use the minimum injections for cure, increasing them. The veterinarian's idea is to use an amount that will create, in the presence of tuberculosis, a decided reaction, without respect to the scattering of the disease. If it is decided, subsequently, to endeavor to stay the disease and prolong life, we might try creosote, iodide of potash, etc.

If, by proper handling of these cattle, we can save their offspring to the State in a healthy condition, we will have met a most serious question in a fortunate manner. To thus handle grade cattle easily or comparatively easily, replaceable by others, is, on account of expense, clearly out of the question. In this instance, the value of the cattle renders the experiment possible even to being undertaken by the owner.

WESTCHESTER COUNTY.

Herd of Wm. Adams. Scarsdale, December 15, 1892.

(1) Variety, Alderney. Age, ———. Sex, male.

Both lungs and mediastinal glands, tuberculous. Animal coughed and had difficult respiration. Testicles, not tuberculous.

(2) Variety, ———. Age, ———. Sex, female.

Both lungs and mediastinal glands, tuberculous.

(3) Variety, ———. Age, ———. Sex, female.

Pharyngeal, abscess. Lungs, normal.

(4) Variety, Alderney. Age, ———. Sex, female.

Both lungs, tuberculous.

(5) Variety, ———. Age, ———. Sex, female.

Pus in left front quarter of udder. Both lungs, tuberculous.

(6) Variety, ———. Age, ———. Sex, female.

Both lungs, in small spots; greatly enlarged mediastinal glands.

(7) Variety, Alderney. Age, ———. Sex, female.

Generalized tuberculosis. Udder, diseased; both lungs; deposits on ribs, diaphragm and liver.

(8) Variety, Alderney. Age, ———. Sex, female.

Both hind quarters of udder; scattered nodules in the lungs.

(9) Variety, ———. Age, ———. Sex, female.
Left lung, slightly; little in right.

(10) Variety, Alderney. Age, ———. Sex, female.
Both lungs; abscess in abdomen, pointing on left side, and surrounded by peritonitis; situated next to paunch.

(11) Variety, Alderney. Age, ———. Sex, female.
Both lungs and mediastinal glands.

Herd of George Lush. Harrisons, December 8, 1892.
(1) Variety, Grade Holstein. Age, 6 years. Sex, female.
Both lungs and mediastinal glands, tuberculous.

(2) Variety, Roan cow. Age, 10 years. Sex, female.
Lower part, posterior lobe of right lung and upper part of posterior lobe of left lung, tuberculous.

(3) Variety, Grade Holstein. Age, 6 years. Sex, female.
Left lung, tuberculous. Left hock, with tubercular arthritis.

Herd of Edward Foshay. Rye Neck, December 8, 1892.
(1) Variety, ———. Age, ———. Sex, female.
Broncho-pneumonia, post. lobe of right lung, nearly healed.

(2) Variety, ———. Age, ———. Sex, female.
Flattened trachea, made her a roarer; neither, tuberculous.

Herd of Josiah Bulkley. Harrisons, December 7-8, 1892.
(1) Variety, ———. Age, ———. Sex, female.
Post-mortem.—Post. pharyngeal glands, tuberculous; also, lungs and mediastinal glands.

(2) Variety, ———. Age, ———. Sex, female.
Abscess of post. pharyngeal glands; also, lungs, tuberculous.

(3) Variety, ———. Age, ———. Sex, female.
Post. pharyngeal, abscess, and lungs, tuberculous.

(4) Variety, Alderney. Age, ———. Sex, female.
Both lungs and liver, tuberculous.

(5) Variety, Ayrshire. Age, ———. Sex, female.
Post-mortem.—Both lungs and mediastinal glands, tuberculous.

(6) Variety, Alderney. Age, ———. Sex, female.
Upper posterior part of both lungs, tuberculous.

Herd of A. Laverty. Purchase, December 13, 1892.
Variety, Jersey. Age, ———. Sex, female.
Both lungs and mediastinal glands, tuberculous. Too weak to walk.

Herd of C. C. Haviland. Harrisons, December 15, 1892.
Variety, ———. Age, 4 years. Sex, female.
Post-mortem.—Bronchitis; no tuberculosis.

Frank Abbott. Harrison, December, 1892.
One cow died of tuberculosis, after inspection.

Herd of W. G. Hitchcock. Harrisons, December, 1892.
One cow died of tuberculosis; three others, diagnosed as tuberculous. The three were sold.

Herd of G. W. Quintard. Harrisons, December, 1892.
One killed; tuberculous. One suspected, but fat and in good condition.

Herd of Sheltering Arms Asylum. Greenburg, January 25, 1893.

Variety, ———. Age, ———. Sex, female.
Post-mortem showed injury of lung, produced by a briar stick about two inches long. Not tuberculous.

Herd of Whitelaw Reid. Harrison, January 25, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed chronic bronchitis. Error could possibly have been obviated by further examinations as stated. Her first examination was January twentieth, re-examined twenty-fourth, by Dr. Peters and myself. Farm had had tuberculosis on it four years earlier. This was, on first and second examinations, apparently a good case.

Herd of W. J. Robinson. Yonkers, January 25, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem showed tuberculosis of lungs and glands.

Herd of Capt. J. G. Peene. Greenburg, January 25, 1893.

Variety, Registered Jersey. Age, ———. Sex, female.

Post-mortem showed tuberculosis of lungs, omentum and glands.

Herd of George Lush. Harrisons, January 25, 1893.

Variety and age, not given.

Post-mortem showed two cows, infected herd, each tuberculous.

Herd of Bloomingdale Asylum. White Plains, January 25, 1893.

Variety and age, not given.

Post-mortem showed that of the three cows slaughtered, two were tuberculous; one, possibly tuberculous, but more likely chronic bronchitis, with some solidification of lung tissue, at border of lung.

Remarks of inspector.— The above isolated cases show the great need of care, thorough examination, and the element of time, in the examination. All but the Lush may be considered isolated cases; for in the Bloomingdale Asylum herd, it does not seem probable that either of the tuberculous cattle caught the disease from the other.

The presence of these isolated cases, four of which were bad, one of them extremely bad, menaced the health of the whole herds in which they were.

The Reid cow's health has been poor, and my attention was drawn to the fact after I found her lung out of order. History favored the diagnosis. Post-mortem, and that alone, could prove the incorrectness in the short time allowed.

From our examinations it seemed that there was nothing else to do but take the animals on the same kind of evidence as offered by the surely tuberculous.

Under date of February 6, 1893, the inspector writes: Since December twentieth, only milk herds have been examined, thus entering into another phase of the investigation.

The examination goes on more rapidly, but is not as satisfactory. Through the constant interchange of cattle from dealers to private owners of family cows and back again, at least, one inspection of all cows is necessitated.

The dealers themselves demand protection from buying tuberculous animals from an inspected area. I recommend, therefore, that in the event of organized inspection, that the slower, but more effective plan of inspecting all the animals be undertaken.

I feel satisfied with my share in the investigation, and, in presenting my report, I do it with no little satisfaction; for while we have not shown the horrible amount of tuberculosis in cattle that many extremists claim, we have shown an amount quite in accord with other reliable observations and sufficient to demand public interference in cleansing our cattle. I also have reason to believe that the Board of Health, by its conservative attitude, regarding the disease, wins not only the consumer, but the producer of milk, to a knowledge that their work is for the good of all concerned.

Permit me as inspector, and one who comes in contact with all classes to reurge the education of milkmen and consumers in the handling of milk, and the former in the care of cattle, especially as regards tuberculosis, by the publication and dissemination of tracts upon these important subjects. Educa-

tion of the ignorant as to what they ought to do, and enforcement of the laws of health in cases of worst violation, will accomplish far more than inspection alone.

Allow me also to draw attention to the fact that, while the State of New York has thought best to eradicate tuberculosis from her herds, that even in that portion where the most diseased herds were thought to be, that she has as little or less than any European country, and that it is probable that the percentage of tuberculous cattle in New York State is less than ten to 1,000.

Under dates of February fourteenth and fifteenth, the inspector calls attention to the improperly ventilated and improperly kept stables, mentions some bad specimens, and suggests the propriety of reporting a certain class to the Dairy Commissioner.

Regarding the sources of milk supply, he reports that New Jersey, Pennsylvania, Connecticut and Massachusetts furnish New York city with milk. I cannot find that Vermont does, yet this State undoubtedly furnishes butter to New York. In my inspection, moreover, I find cows from Vermont, as well as other adjoining States, among the milk herds.

I have no reason for believing that Vermont may have any considerable percentage of tuberculosis. I judge that we may form some estimate of the amount when we have examined some of the northern counties of New York State.

Regarding the confirmation of the inspector's diagnosis of tuberculosis, he writes as follows: In a report from the pathologist on specimens from two animals submitted to him, he reports one as tuberculous, the other as interstitial pneumonia. The first was submitted to him as being microscopically from a tuberculous cow, and as being characteristic of the lesions which we have been calling tuberculosis, in each of the slaughtered animals. The other specimen was from the Bloomingdale Holstein, which we have already reported as not tuberculous. I thought it well to have one case on record, as determined macroscopically and microscopically, thus corroborating the diagnosis.

Herd of N. C. Strang. Yorktown, March 13, 1893.

(The following are the statements of inspector, regarding examination of three carcasses of cows.)

One had been dead so long that an exact post-mortem diagnosis could not be made. The trouble seemed, from description, clinical symptoms and from general aspect of lungs, to have been a pneumonia. The lungs seemed to indicate bronchitis, with some pneumonia. There was no pleurisy.

The lungs of the second seemed to be those of a cow longer sick, or in a chronic stage of the disease, thus corresponding to the time she was sick. She had been killed at the advice of Veterinarian Purdy, the day previous. Lobular pneumonia was quite apparent. Serous infiltration of the connective tissue and thickening of the tissue to a noticeable degree, were also apparent. The pericardium showed considerable pericarditis, the outside being covered with thick deposit of organized material.

This case resembles the figure of Broncho-pneumonia, given in United States Bureau Animal Industry Report on Diseases of Cattle.

The herd showed no signs of tuberculosis. Dr. ———, of the Bureau of Animal Industry, had visited this herd the day before and carried away specimens. As the Bureau had taken cognizance of the disease, and there was no tuberculosis in the herd, it seemed beyond province to take further steps. I requested the owner to inform me if he lost other cattle, and especially if trouble arose regarding his milk being distributed in the city, as he feared; for there seemed to be no disease in the herd which would make the milk unfit for human food.

Herd of J. M. Waterbury. Baychester, March 23, 1893.

Variety, Registered Alderney. Age, ———. Sex, female.

Post-mortem showed it to be affected with disseminated tubercular nodules in both lungs. The anterior and posterior mediastinal glands, and the cardiac glands, very much enlarged by tubercular deposits.

Diagnosis.— Lung fever.

Remarks of inspector.— The presence of this cow in the herd during a period of two years, and the death of her mother from supposedly the same disease, had constantly menaced the herd; and it would not be surprising to find the disease developed in the herd at a later date.

Herd of E. Hill. Williams Bridge, March 23, 1893.

Variety, Half Jersey. Age, ———. Sex, female.

Post-mortem.— Right lung, very firm to touch; did not collapse. Scattered lobules, much firmer and darker colored than others, lower half of middle the most affected. Right lung, in fair condition, but not normal. Connective tissue in right, thickened.

Diagnosis.— Broncho-pneumonia, not tuberculosis.

Herd of Jacob Frey. Throgs Neck, March 23, 1893.

Variety, Grade Alderney. Age, ———. Sex, female.

Post-mortem.— Red hepatization of left lung, in two places, large areas in post. lobe and post. border. Another of equal size in middle of right lung. Small abscess containing catarrhal products in left.

Diagnosis.— Pneumonia, perhaps, associated with bronchitis.

Herd of Philip Trott. East Chester, March 23, 1893.

Variety, ———. Age, ———. Sex, female.

Post-mortem.— Right lung, anterior portion of middle lobe, a hard, cheesy abscess one and one-half by three by two inches. In the posterior lobe an abscess as large as two fists, side by side. Cardiac, anterior and posterior mediastinal glands, with cheesy foci.

Diagnosis.— Tuberculosis.

Herd of Wesley See. New Rochelle, March 23, 1893.

Variety, Grade Jersey. Age, ———. Sex, female. A roarer.

Post-mortem.— Throat glands, enlarged. One, on either side, filled with yellow fluid, a series of smaller glands, with cheesy foci extending along either side of the pharynx. Cardiac and anterior and posterior mediastinal glands, not greatly enlarged,

but with foci of cheesy substance scattered throughout. L entirely free.

Diagnosis.— Tuberculosis of glands.

(2) Variety, ———. Age, ———. Sex, female.

Post-mortem showed mucus in trachea only.

Diagnosis.— Tracheitis, possibly bronchitis earlier.

Remarks.— These cows are from a herd with tuberculosis at an earlier date — the Gunther herd of New Rochelle. first was not bad, and it is a question if it was dangerous to health of the cows.

The results of this slaughter are all the more strong for introduction of a safer means of diagnosis than physical al Cows which seemed, on inspection, to be surely tubercu proved to be otherwise, and one cow, the Trott cow, which never suspected, proved to be a bad case.

The only error about which there might be a question is of the red cow belonging to Wesley Lee. Her history – having come from a herd known to be tuberculous, and ha certain sounds in the chest — led to her condemnation.

The inspector concludes thus: I believe the use of an a which would leave less to the judgment of the inspector, throw more of the weight of decision on itself, will prove more satisfactory in the end.

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